

Windows Inspector Library

A Guide to the BigFix Windows Inspectors

BigFix, Inc. Emeryville, CA

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Preface

The *Windows Inspector Library* is a guide to the ordinary phrases (known as Inspectors) of the **Relevance Language**[™]. Using this guide, you can write your own Relevance Expressions and use them to target actions to exactly those computers that need them. Both the **BES Console** and the **BigFix Development Environment** allow you to write **Fixlet**[®] messages and post them to **Fixlet Sites**. For more information on how these programs support the Relevance language, see the *BigFix Enterprise Suite* (*BES*) *Console Operator's Guide* and the *BigFix Development Environment* (*BDE*) *Guide*.

Audience

This guide is for IT managers, product support groups and other people who want to write Fixlet messages.

IT managers will use the BigFix Enterprise Suite (BES) to keep a network of computers up to date and running smoothly without interruption.

QA and other support teams will produce Fixlet messages for the BigFix Consumer Edition (BCE), designed to keep their users updated and their support calls to a minimum. Only those Inspectors marked with BCE are available for the consumer version. To get the most out of this manual, it helps to have some experience with the Windows Registry and the BigFix Relevance Language.

Organization of this manual

For each Inspector in this library, there is a list of corresponding properties. The Inspectors are organized by category as follows:

- **Primitive Objects.** This chapter covers the basic data types supported by the language and describes the operations that can be applied to them.
- World Objects. This chapter covers the keywords used to create all the 'top' level objects of the world. The properties of these objects provide access to all levels of the machine state that can be inspected.
- Registry Objects. This chapter covers the keywords for dealing with the Windows
 registry. Particular attention is paid to registered applications and their associated file
 extensions.
- **File System Objects.** This chapter covers the keywords for extracting information from the file system, like applications, drives, pathnames, folders, versions, etc. It includes the keywords dealing with applications that have registered themselves in the Windows registry. It also includes the keywords needed to identify and compare version information of files and applications.

- **System Objects.** This chapter covers the keywords available for querying the name and version of the operating system. It also includes the version information of the system Bios. This chapter also covers the keywords used to describe the vendors and types of the various processors that coexist in a typical computer system.
- **Firewall Objects.** This chapter details the firewall Inspectors that examine the authorized applications, policies, services, settings and more.
- **DMI Objects.** This chapter covers the keywords that query the dmi data of the bios. This data, when present, provides detailed information about the properties and manufacture of the system.
- **WMI Objects.** This chapter covers WMI objects that provide access to the WMI (Windows Management Interface) query facility.
- **Site Objects.** This chapter covers the keywords that query the properties of Fixlet sites to which the client is subscribed.
- **Client Objects.** This chapter covers the client inspectors, which allow access to properties of the client application hosting the relevance evaluation.
- Environment Objects. An environment object is provided to access environment variables. These are the same variables you are used to seeing in a DOS shell when you type the 'set' command. Note that you are inspecting the environment of the application executing the relevance clause, which may or may not match the environment of other applications on the computer.
- **Authorization Objects.** This section covers inspectors that retrieve security and access settings.
- **User Objects.** This chapter covers the local and current user keywords. A Local User object is provided to access the user data of the local machine. Note that domain users are not available through this inspector.
- **Action Objects.** These are the keywords associated with properties available for inspection during the execution of BigFix Actions.
- **Network Objects.** This chapter covers the keywords used to query the local network configuration.
- **Microsoft IIS Metabase Objects.** This section lists the inspectors for the Microsoft IIS Metabase, which is a repository for most IIS configuration values.
- **Introspectors.** This chapter is concerned with Inspectors that query the Inspectors themselves, looking at types, properties, operators and casts.
- **Keywords (Inspector List).** This chapter provides an alphabetical list of all the Inspector keywords along with the form, context object type, and resulting object type.

Conventions Used in this manual

This document makes use of the following conventions and nomenclature:

Convention	Use	
Bold Sans	A bold sans-serif font is used for Inspector headers.	
Mono-space	A mono-spaced font is used to indicate expressions in the Relevance Language.	
{curly braces}	Braces are used to indicate the comparison {=, !=} or arithmetic operators {+, -} that are available for a binary operation.	
<angle bracket=""></angle>	Angle brackets are used to indicate an object type. For instance to indicate the creation and usage of a particular object, you might see "absolute value of <integer>" which indicates that an integer is to follow the "absolute value of" keyphrase.</integer>	
Italics	An inspector form. Some inspectors are simple keywords. Others are a keyword in combination with another inspector. Still other forms allow iteration through object lists. Each form is defined below	
Small print	The small print beneath the description of each Inspector lists the first implementation for every relevant operating system.	

Examples

Square bullets and a mono-spaced font denote examples of Inspectors as used in a Relevance Expression. If you have a color version of this file, these square bullets are also red:

- concatenation of "light" & "year"
- ▶ Returns "lightyear"

Versions

Most Inspectors have equivalent implementations on other operating systems, allowing you to write cross-platform relevance expressions. There are exceptions, of course. To keep track of them for each Inspector and operating system, the debut BigFix version is listed at the end of the description, e.g.:

Win:1.2, RH:3.1, Sol:3.1, HPUX:4.0, AIX:4.1

These are the abbreviations for some of the current operating systems:

Win: the Windows version of the BigFix Enterprise Suite (BES).

RH: the Red Hat & Suse Linux version of BES.

Sol: the SUN Solaris operating system version of BES.

HPUX: the Hewlett-Packard Unix version of BES.

AIX: the AIX version of BES.

Mac: the Macintosh version of BES.

Introduction

This manual details the properties and operators of the BigFix Inspector keywords. Inspectors are the basis of the Relevance Language. They can be thought of as object-oriented representations of the underlying computer system. With Inspectors, you can write Relevance expressions that query all aspects of the computer. Inspectors are also used to produce substituted variables in action buttons. In addition, they can be used to create human-readable descriptions of any given computer system.

You will notice that many of the keywords of the language are not unique; they get their meaning from their context. Accordingly, their definitions often include a phrase to define the context of each Inspector.

This document describes inspectors for Windows 95/98/ME as well as Windows NT, 2000, and XP. Only those Inspectors marked with BCE are available for the Bigfix Consumer Edition. Contact your BigFix sales representative for information about Inspector Guides for other operating systems, including Solaris, Mac, HPUX, AIX, Red Hat and Suse Linux.

In the following pages, you will find tables defining the inspectors of the relevance language. The inspectors come in seven **forms** depending upon their context:

Form	Syntax required
Cast	<object> as keyword</object>
Global	keyword
Named	keyword "name" of <object></object>
NamedGlobal	keyword "name"
Numbered	keyword <i>number</i> of <object></object>
NumberedGlobal	keyword <i>number</i>
Plain	keyword of <object></object>

These differ from one another in format and in the syntax they require. Except for Cast, these forms can be used to access both single objects and *lists* of objects by using the plural form of the keyword. The plurals are listed in the Keyword section later in this document.

Creation Methods are used to create objects of the specified type, and various Properties are available for each object.

Operators list the binary and unary operations that can be performed with the given object type. Binary operators take two inputs and generate one output. The integer '+' (addition) operator is an example of a binary operation. Unary operators take a single input and generate a single output. The boolean 'Not' operation is an example of a unary operation.

Primitive Objects

The relevance language is based upon a comprehensive set of primitive objects. These primitives are the basic building blocks of the more complex objects to follow.

Boolean

Creation Methods

These boolean creation methods are in addition to the other properties that return the boolean type.

Key Phrase	Form	Description
<string> as boolean</string>	Cast	Returns a boolean TRUE or FALSE from a string. The string must contain values of "TRUE" or "FALSE". Case is ignored. For example, "FalSe" as boolean = FALSE.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
bit <integer> of <integer></integer></integer>	Numbered	Return TRUE if the bit referenced by the integer is on. Bits are numbered starting with zero being the least significant. For example, bit 0 of 5 and bit 2 of 5 and not bit 1 of 5 = TRUE.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
boolean <string></string>	NamedGlobal	Creates the boolean value of the <string>, e.g., • boolean "False" = FALSE.</string>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
conjunction of <boolean></boolean>	Plain	This inspector performs a serial AND on all its boolean arguments: • conjunction of (true; true; true) -> TRUE • conjunction of (true; true; false) -> FALSE. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
disjunction of <boolean></boolean>	Plain	This inspector performs a serial OR on all its boolean arguments: • disjunction of (false; false; false) -> FALSE • disjunction of (false; false; true) -> TRUE. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
false	PlainGlobal	Creates a boolean with value FALSE.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
inexact of <floating point=""></floating>	Plain	Returns TRUE if the calculation raised the inexact exception; that is, if some intermediate result could not be represented exactly.
		Win:4.1, Mac:4.1
infinite of <floating point=""></floating>	Plain	Returns TRUE if the floating point number is infinite.
		Win:4.1, Mac:4.1
invalid of <floating point=""></floating>	Plain	Returns TRUE if the calculation raised the invalid exception; that is, if some part of the calculation a function was applied to a value outside its domain.
		Win:4.1, Mac:4.1
nan of <floating point=""></floating>	Plain	Returns TRUE if the value is not a number.
		Win:4.1, Mac:4.1
normal of <floating point=""></floating>	Plain	Returns TRUE if the value is a valid floating point number.
		Win:4.1, Mac:4.1
overflow of <floating point=""></floating>	Plain	Returns TRUE if the calculation raised the overflow exception; that is, if some intermediate result was too large to be represented, but not an exact infinity.
		Win:4.1, Mac:4.1
true	PlainGlobal	Creates a boolean with value TRUE.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
underflow of <floating point=""></floating>	Plain	Returns TRUE if the calculation raised the underflow exception; that is, if some intermediate result was a nonzero value too small to be represented.
		Win:4.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
<boolean> as string</boolean>	Cast	<string></string>	Converts the boolean value to a string. The possible values returned are "True" and "False" with this exact case, e.g., • TRUE as string = "True". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
conjunction of <boolean></boolean>	Plain	<boolean></boolean>	This inspector performs a serial AND on all its boolean arguments: • conjunction of (true; true; true) -> TRUE • conjunction of (true; true; false) -> FALSE. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
disjunction of <boolean></boolean>	Plain	<boolean></boolean>	This inspector performs a serial OR on all its boolean arguments: • disjunction of (false; false; false) -> FALSE • disjunction of (false; false; true) -> TRUE. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Operators

Key phrase	Return Type	Description
<boolean> * <time range=""></time></boolean>	<timed(time<br="">range, boolean)></timed(>	Returns a time interval labeled with a boolean TRUE or FALSE. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<boolean> {cmp} <boolean></boolean></boolean>	<boolean></boolean>	Compare two boolean expressions. Returns another boolean, depending on the evaluation of the comparison: • {cmp} is one of: =, != . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<boolean> {op} <boolean></boolean></boolean>	<boolean></boolean>	Operates on two boolean expressions. Returns another boolean, depending on the evaluation of the operation, e.g., (True And True) = True. • {op} is one of: And, Or . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<floating point=""> {cmp} <floating point=""></floating></floating>	<boolean></boolean>	Compares two floating point numbers, where: • {cmp} is one of: =, <, <=. Win:4.1, Mac:4.1
<floating point=""> {cmp} <integer></integer></floating>	<boolean></boolean>	Compares a floating point number and an integer, where: • {cmp} is one of: =, <=, <. Win:4.1, Mac:4.1

Key phrase	Return Type	Description
<integer> {cmp} <floating point=""></floating></integer>	<boolean></boolean>	Compares an integer to a floating point number, where: • {cmp} is one of: =, <=, <.
		Win:4.1, Mac:4.1
<time interval=""> {cmp} <time interval=""></time></time>	<boolean></boolean>	Compare two time intervals, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time range=""> * <boolean></boolean></time>	<timed(time<br="">range, boolean)></timed(>	Returns a time interval labeled with the specified boolean, in the form of: • (<date> to <date>), <boolean>. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</boolean></date></date>

Examples

- bit 0 of (least integer + 1)
- Returns the least significant bit of the smallest possible integer, plus one.
- conjunction of (current month = April; leap of year of current date)
- Returns TRUE during April of a leap year.
- disjunction of (current day_of_week = Monday ;current day_of_week = Wednesday; current day_of_week = Friday)
- ▶ Returns TRUE on either Monday, Wednesday or Friday.
- infinite of (floating point "1"/ 0)
- Returns TRUE.
- nan of (floating point "1.e-99999" * floating point "1.e999999")
- Returns TRUE.
- overflow of (floating point "1.0e50000")
- Returns TRUE, since the number is too big to represent in floating point.

Integer

Integers are represented internally as 64-bit signed values.

Creation Methods

These integer creation methods are in addition to the other properties that return the integer type.

Key Phrase	Form	Description
<floating point=""> as integer</floating>	Cast	Rounds off and casts a floating point number as an integer.
		Win:6.0
<integer> as integer</integer>	Cast	Integer casting for completeness.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as integer</string>	Cast	Converts from a string to an integer.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
absolute value of <integer></integer>	Plain	Creates the positive value of the <integer> object.</integer>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
greatest integer	PlainGlobal	Creates the value 9,223,372,036,854,775,807.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
hexadecimal integer <string></string>	NamedGlobal	Creates an integer from the provided hexadecimal value.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
integer <integer></integer>	NumberedGlobal	Creates a global object with the given integer value, e.g., Integer 123.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
integer <string></string>	 NamedGlobal	Creates a global object with the integer value given by a string, e.g., Integer "123" creates the value 123.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
integer ceiling of <floating point=""></floating>	Plain	Returns the smallest integer not less than the floating point number. For example, ceiling of $2.1 = 3$, ceiling of $2 = 2$ and ceiling of $-2.3 = -2$. Win:6.0

Key Phrase	Form	Description
integer floor of <floating point=""></floating>	Plain	Returns the largest integer less than or equal to the floating point number. For example, floor of $2.8 = 2$, floor of $-2 = -2$ and floor of $-2.1 = -3$. For nonnegative x, this is the same as the integer part of x. Win: 6.0
least integer	PlainGlobal	Creates the value -9,223,372,036,854,775,808. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
length of <rope></rope>	Plain	Creates an integer object corresponding to the number of bytes in the rope. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
length of <string></string>	Plain	Creates an integer object corresponding to the number of bytes in the string. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
lower bound of <integer range=""></integer>	Plain	The low end of the integer range. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
maximum of <integer></integer>	Plain	Returns the maximum of a list of integers. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
minimum of <integer></integer>	Plain	Returns the minimum of a list of integers. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
numeric value of <string></string>	Plain	Creates an integer object containing the value of the first number contained in a string. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
product of <integer></integer>	Plain	Multiplies a list of integers, returning the product. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
significant digits <integer> of <integer></integer></integer>	Numbered	Creates a number with <integer> significant digits (e.g., significant digits 3 of 1235569 = 1240000). Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</integer>
sum of <integer></integer>	Plain	Returns the sum of a list of integers. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
upper bound of <integer range=""></integer>	Plain	The high end of the integer range. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Properties

Integers are represented internally as 64-bit signed values.

Key Phrase	Form	Return Type	Description
<integer> as bit set</integer>	Cast	 dit set>	Returns the bits of the binary representation of the integer; bit zero is the least-significant bit.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
<integer> as bits</integer>	Cast	 	Returns the bits of the binary representation of the integer; bit zero is the least-significant bit. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
<integer> as day_of_month</integer>	Cast	<day month="" of=""></day>	Cast an integer as a day of the month type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<integer> as floating point</integer>	Cast	<floating point=""></floating>	Converts an integer into a floating point number. Win:4.1, Mac:4.1
<integer> as hexadecimal</integer>	Cast	<string></string>	Converts an integer into a hexadecimal string. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
<integer> as integer</integer>	Cast	<integer></integer>	Reflective cast for completeness.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<integer> as month</integer>	Cast	<month></month>	Returns the name of the nth month of the year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<integer> as string</integer>	Cast	<string></string>	Converts an integer to a string.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<integer> as year</integer>	Cast	<year></year>	Casts an integer as a year type.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
absolute value of	Plain	<integer></integer>	Returns the positive value of the integer.
<integer></integer>			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
bit <integer> of <integer></integer></integer>	Numbered	<boolean></boolean>	Returns TRUE if the numbered bit is on. Bits are numbered starting at zero. Bit 0 is the least significant bit.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
maximum of <integer></integer>	Plain	<integer></integer>	Returns the maximum of a list of integers.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
mean of <integer></integer>	Plain	<floating< td=""><td>The mean of the integer(s).</td></floating<>	The mean of the integer(s).
		point>	Win:5.1, Mac:4.1
minimum of <integer></integer>	Plain	<integer></integer>	Returns the minimum of a list of integers.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
product of <integer></integer>	Plain	<integer></integer>	Multiplies a list of integers, returning the product.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
significant digits <integer> of <integer></integer></integer>	Numbered	<integer></integer>	Returns a number with <integer> significant digits (e.g., significant digits 3 of 1235569 = 1240000).</integer>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
standard deviation of	Plain	<floating< td=""><td>The standard deviation of the integer(s).</td></floating<>	The standard deviation of the integer(s).
<integer></integer>		point>	Win:5.1, Mac:4.1
sum of <integer></integer>	Plain	<integer></integer>	Returns the sum of a list of integers.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
unique value of <integer></integer>	Plain	<integer></integer>	Returns the same integers, but with duplicates removed.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			• Note: As of version 6.0 of BES, this Inspector
			returns an integer with multiplicity.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
unique value of <integer></integer>	Plain	<integer with multiplicity></integer 	Given a set of integers, returns the number of instances of each integer. Given (1,2,2,2,3), returns (1,3,1). Earlier versions of this Inspector returned the unique set of integers.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Operators

Key phrase	Return Type	Description
<floating point=""> {cmp} <integer></integer></floating>	<boolean></boolean>	Compares a floating point number and an integer, where: • {cmp} is one of: =, <=, <.
		Win:4.1, Mac:4.1
<floating point=""> {op} <integer></integer></floating>	<floating point=""></floating>	Operates on a floating point number and an integer, returning a floating point number, where: • {op} is one of: +, -, *, /, And .
		Win:4.1, Mac:4.1
<hertz> {op} <integer></integer></hertz>	<hertz></hertz>	Returns a hertz object operated on by the given integer, where: • {op} is one of: *, /.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<integer> * <number months="" of=""></number></integer>	<number months="" of=""></number>	Multiply a number of months by an integer, producing a new number of months. This is a typical technique to create a value of this type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<integer> * <time range=""></time></integer>	<timed(range,<="" td="" time=""><td>Multiply a time range by an integer, producing a new time range.</td></timed(>	Multiply a time range by an integer, producing a new time range.
	integer)>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><integer> {cmp} <floating point=""></floating></integer></pre>	<boolean></boolean>	Compares an integer to a floating point number, where:
		• {cmp} is one of: =, <=, <.
		Win:4.1, Mac:4.1
<integer> {cmp} <integer></integer></integer>	<boolean></boolean>	Returns boolean TRUE or FALSE, depending on the comparison operator, where: • {cmp} is one of: =, !=, <, <=, >, >= .
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<integer> {cmp} <registry key="" type="" value=""></registry></integer>	<boolean></boolean>	Returns boolean TRUE or FALSE, depending on the comparison operator, where: • {cmp} is one of: =, !=, <, <=, >, >= .
		Win:1.2
<integer> {cmp} <registry key="" value=""></registry></integer>	<boolean></boolean>	Returns boolean TRUE or FALSE, depending on the comparison operator, where: • {cmp} is one of: =, !=, <, <=, >, >= .
		Win:1.2

Key phrase	Return Type	Description
<integer> {op} <floating point=""></floating></integer>	<floating point></floating 	Operates on an integer and a floating point number, returning a floating point number, where: • {op} is one of: -, +, *, /. Win:4.1, Mac:4.1
<integer> {op} <integer></integer></integer>	<integer></integer>	Returns the integer solution to the equation, depending on the operator, where: • {op} is one of: +, -, *, /, mod . Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<number months="" of=""> {op} <integer></integer></number>	<number months="" of=""></number>	Where {op} is one of: *, /. win:6.0
<time range=""> * <integer></integer></time>	<timed(time range, integer)></timed(time 	Returns a time interval labeled with the specified integer, in the form of: • (<date> to <date>), <integer>. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</integer></date></date>

Examples

- hexadecimal integer "A0"
- Returns 160.
- integer ceiling of (15/8 as floating point)
- Returns 2.
- integer floor of ("1.9" as floating point)
- Returns 1.
- maximum of (sizes of files of folder "c:\")
- Returns the size of the largest file in the indicated folder.
- minimum of (sizes of files of folder "c:\")
- Returns the size of the smallest file in the indicated folder.
- numeric value of "string 123 xyz 45" = 123
- Returns TRUE.
- product of (1;2;3)
- Returns 6.
- sum of (sizes of files of folder "c:\")
- Returns the sum of the sizes of all files in the specified folder.

- 255 as hexadecimal
- ▶ Returns the string "ff".
- maximum of (7;2;4;5)
- Returns 7.
- minimum of (sizes of files of folder "c:\")
- Returns the size of the smallest file in the indicated folder.
- significant digits 3 of 1235569
- ▶ Returns 1240000.
- sum of (sizes of files of folder "c:\")
- Returns the sum of the sizes of all files in the specified folder.
- (July-current month) < 2*month
- ▶ Returns TRUE when the current date is between June and July.
- 21 mod 5
- Returns 1.

Integer Range

Specifies a range between two 64-bit signed integers.

Creation Methods

Key Phrase	Form	Description
distance of <selected server=""></selected>		The distance, in IP gateway hops, to the server. Among servers with the same priority, closer servers are preferred. Returns an integer range, since the exact distance may not be known. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
lower bound of <integer range=""></integer>	Plain	<integer></integer>	The low end of the integer range. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
upper bound of <integer range=""></integer>	Plain	<integer></integer>	The high end of the integer range. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Integer With Multiplicity

These Inspectors deal with arrays of integers, allowing you to pluck out unique numbers and count them. These objects are derived from integer types.

Creation Methods

Key Phrase	Form	Description
unique value of <integer></integer>	Plain	Given a set of integers, returns the number of instances of each integer. Given (1,2,2,2,3), returns (1,3,1). Earlier versions of this Inspector returned the unique set of integers. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Properties

Key Phrase	Form	Return Type	Description
multiplicity of <integer multiplicity="" with=""></integer>	Plain	<integer></integer>	Returns the multiplicity (quantity) of each element in a multiple integer list.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Examples

- unique values of (1;2;3;3)
- Returns a list of the count of each integer, namely 1,1,2.
- multiplicities of unique values of (1;2;3;3)
- Returns the multiplicity of (the number of times) each number in the list is used, namely, 1,1,2.

Floating Point

The point type holds a floating-point number, with precision dependent on the computer. It also keeps track of the IEEE floating-point exceptions raised in a calculation and an estimate of the significance with which the number should be expressed when it is converted to a string. All arithmetic operations are carried out to the full precision of the computer; only conversions to string are affected by the estimated significance.

Creation Methods

Key Phrase	Form	Description
<integer> as floating point</integer>	Cast	Converts an integer into a floating point number.
		Win:4.1, Mac:4.1
<string> as floating point</string>	Cast	Converts the contents of a string into a floating point number.
		Win:4.1, Mac:4.1
floating point <string></string>	NamedGlobal	Creates a floating point number from the provided string.
		Win:4.1, Mac:4.1
less significance <integer> of <floating point=""></floating></integer>	Numbered	Removes <integer> number of digits of significance from the floating point value.</integer>
		Win:4.1, Mac:4.1
mean of <floating point=""></floating>	Plain	The mean of the floating point number(s).
		Win:5.1, Mac:4.1
mean of <integer></integer>	Plain	The mean of the integer(s).
		Win:5.1, Mac:4.1
more significance <integer> of <floating point=""></floating></integer>	Numbered	Adds <integer> number of digits of significance to the floating point value.</integer>
		Win:4.1, Mac:4.1
relative significance place <integer> of <floating< td=""><td>Numbered</td><td>The same floating point value, to be expressed to the given number of significant digits.</td></floating<></integer>	Numbered	The same floating point value, to be expressed to the given number of significant digits.
point>		Win:4.1, Mac:4.1
relative significance place of <floating point=""></floating>	Plain	The base 10 logarithm of the quotient of the value and its significance place; approximately the number of significant digits to which the number should be expressed.
		Win:4.1, Mac:4.1

The same floating point value, to be expressed to the given decimal place.
given decimal place.
Win:4.1, Mac:4.1
The base 10 logarithm of the significance threshold; approximately the number of digits to the left (positive) or right (negative) of the ones place to which the number should be expressed.
Win:4.1, Mac:4.1
The difference between the given value and the next number expressed to the same significance level. For example, the significance threshold of 3 is 1, the significance threshold of 3.0 is 0.1, and the significance threshold of 3000 is 1000. Win:4.1, Mac:4.1
The standard deviation of the floating point number(s). Win:5.1, Mac:4.1
The standard deviation of the integer(s). Win:5.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
<floating point=""> as integer</floating>	Cast	<integer></integer>	Rounds off and casts a floating point number as an integer. Win:6.0
<pre><floating point=""> as scientific notation</floating></pre>	Cast	<string></string>	Converts a floating point number into a string with scientific notation. Win:4.1, Mac:4.1
<pre><floating point=""> as standard notation</floating></pre>	Cast	<string></string>	Converts a floating point number into a string with standard notation. Win:4.1, Mac:4.1
<floating point=""> as string</floating>	Cast	<string></string>	Converts a floating point number into a string with standard notation. Win:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
divided by zero of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the calculation raised the divide-by-zero exception; that is, if some part of the calculation produced an exact infinity.
			Win:4.1, Mac:4.1
finite of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the floating point number is finite.
			Win:4.1, Mac:4.1
inexact of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the calculation raised the inexact exception; that is, if some intermediate result could not be represented exactly.
			Win:4.1, Mac:4.1
infinite of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the floating point number is infinite.
			Win:4.1, Mac:4.1
integer ceiling of <floating point=""></floating>	Plain	<integer></integer>	Returns the smallest integer not less than the floating point number. For example, ceiling of 2.1 = 3, ceiling of 2 = 2 and ceiling of -2.3 = -2.
			Win:6.0
integer floor of <floating point=""></floating>	Plain	<integer></integer>	Returns the largest integer less than or equal to the floating point number. For example, floor of $2.8 = 2$, floor of $-2 = -2$ and floor of $-2.1 = -3$. For nonnegative x, this is the same as the integer part of x.
			Win:6.0
invalid of < floating point>	Plain	<boolean></boolean>	Returns TRUE if the calculation raised the invalid exception; that is, if some part of the calculation a function was applied to a value outside its domain.
			Win:4.1, Mac:4.1
less significance <integer> of <floating point=""></floating></integer>	Numbered	<floating point=""></floating>	Removes <integer> number of digits of significance from the floating point value. Win:4.1, Mac:4.1</integer>
mean of <floating point=""></floating>	Plain	<floating point=""></floating>	The mean of the floating point number(s). Win:5.1, Mac:4.1

Key Phrase	Form	Return Type	Description
more significance <integer> of <floating point=""></floating></integer>	Numbered	<floating point=""></floating>	Adds <integer> number of digits of significance to the floating point value.</integer>
point			Win:4.1, Mac:4.1
nan of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the value is not a number.
			Win:4.1, Mac:4.1
normal of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the value is a valid floating point number.
			Win:4.1, Mac:4.1
overflow of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the calculation raised the overflow exception; that is, if some intermediate result was too large to be represented, but not an exact infinity.
			Win:4.1, Mac:4.1
relative significance place <integer> of</integer>	Numbered	<floating point=""></floating>	The same floating point value, to be expressed to the given number of significant digits.
<floating point=""></floating>			Win:4.1, Mac:4.1
relative significance place of <floating point=""></floating>	Plain	<floating point=""></floating>	The base 10 logarithm of the quotient of the value and its significance place; approximately the number of significant digits to which the number should be expressed.
			Win:4.1, Mac:4.1
significance place <integer> of <floating< td=""><td>Numbered</td><td><floating point=""></floating></td><td>The same floating point value, to be expressed to the given decimal place.</td></floating<></integer>	Numbered	<floating point=""></floating>	The same floating point value, to be expressed to the given decimal place.
point>			Win:4.1, Mac:4.1
significance place of <floating point=""></floating>	Plain	<floating point=""></floating>	The base 10 logarithm of the significance threshold; approximately the number of digits to the left (positive) or right (negative) of the ones place to which the number should be expressed.
			Win:4.1, Mac:4.1
significance threshold of <floating point=""></floating>	Plain	<floating point=""></floating>	The difference between the given value and the next number expressed to the same significance level. For example, the significance threshold of 3 is 1, the significance threshold of 3.0 is 0.1, and the significance threshold of 3000 is 1000. Win:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
standard deviation of <floating point=""></floating>	Plain	<floating point=""></floating>	The standard deviation of the floating point number(s). Win:5.1, Mac:4.1
underflow of <floating point=""></floating>	Plain	<boolean></boolean>	Returns TRUE if the calculation raised the underflow exception; that is, if some intermediate result was a nonzero value too small to be represented. Win:4.1, Mac:4.1

Operators

Key phrase	Return Type	Description
<floating point=""> {op} <floating point=""></floating></floating>	<floating point></floating 	Operates on two floating point numbers, returning another floating point number, where: • {op} is one of: +, -, *, /. Win:4.1, Mac:4.1
<floating point=""> {op} <integer></integer></floating>	<floating point></floating 	Operates on a floating point number and an integer, returning a floating point number, where: • {op} is one of: +, -, *, /. Win:4.1, Mac:4.1
<integer> {cmp} <floating point=""></floating></integer>	<boolean></boolean>	Compares an integer to a floating point number, where: • {cmp} is one of: =, <=, <, >, >=, !=. Win:4.1, Mac:4.1
<integer> {op} <floating point=""></floating></integer>	<floating point></floating 	Operates on an integer and a floating point number, returning a floating point number, where: • {op} is one of: -, +, *, /. Win:4.1, Mac:4.1

Examples

- 4.5 as floating point
- Returns 4.5.
- less significance 2 of floating point "5.115"
- Returns 5.1.

- mean of floating points("1.3"; "2.5")
- Returns 1.90.
- mean of integers(1;2;3;4;5)
- Returns 3.0.
- more significance 2 of floating point "5.2"
- Returns 5.200.
- significance place 2 of floating point "9123"
- Returns 9100.
- significance place of floating point "9000"
- Returns 3.00.
- standard deviation of integers(1;2;3;4;5)
- Returns 1.4.
- 15/2 as integer
- Returns 7.
- floating point "600987.9" as scientific notation
- Returns 6.009879e+5.
- floating point "6.009e8" as standard notation
- Returns 600900000.
- finite of (floating point "1"/ 0)
- Returns FALSE.
- infinite of (floating point "1"/ 0)
- Returns TRUE.
- integer floor of ("-2.1" as floating point)
- Returns -3.
- less significance 2 of floating point "5.115"
- Returns 5.1.
- mean of floating points("1.3"; "2.5")
- Returns 1.90.
- more significance 2 of floating point "5.2"
- Returns 5.200.

- nan of (floating point "1.e-99999" * floating point "1.e999999")
- Returns TRUE.
- overflow of (floating point "1.0e50000")
- Returns TRUE, since the number is too big to represent in floating point.
- significance place 2 of floating point "9123"
- Returns 9100.
- significance place of floating point "9000"
- Returns 3.00.

String

A string literal is written within double quotes. Special characters must be inserted by using the percent sign followed by 2 hex digits. Special characters include those characters with ASCII codes less than the 'space' character (hex 20) or greater than 'tilde' character (hex 7f) as well as the percent character itself (25 hex). For example, to create a string containing a null character and a percent character use "a null is %00, the percent itself is %25". Conversion to upper and lower case is also provided. String works in combination with the string position and substring data types. A string position is a point within a string. It can be compared to an integer, but it also acts as a pointer within a string so that the preceding and following text can be extracted. A substring is a part of a larger string. All operations allowed on a string can be performed on a substring. There are two substrings "be" in the string "To be or not to be". The substrings only differ in their positions within the string.

Creation Methods

These string creation methods are in addition to the other properties that return the string type.

Key Phrase	Form	Description
<boolean> as string</boolean>	Cast	Operates on a boolean to return a string. Possible values are "True" and "False".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<date> as string</date>	Cast	Cast a date type as a string.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<floating point=""> as scientific notation</floating>	Cast	Converts a floating point number into a string with scientific notation.
		Win:4.1, Mac:4.1
<floating point=""> as standard notation</floating>	Cast	Converts a floating point number into a string with standard notation.
		Win:4.1, Mac:4.1

Key Phrase	Form	Description
<floating point=""> as string</floating>	Cast	Converts a floating point number into a string with standard notation.
		Win:4.1, Mac:4.1
<hertz> as string</hertz>	Cast	Creates a string containing the number of hertz and the word hertz, e.g., (3 * hz) as string = "3 hertz".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<integer> as hexadecimal</integer>	Cast	Converts an integer into a hexadecimal string.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
<integer> as string</integer>	Cast	Creates a string formatted with the integer provided. (-22) as string = "-22".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as hexadecimal</string>	Cast	Converts a string to a hexadecimal number.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
<string> as left trimmed</string>	Cast	Trims the leading spaces from a string.
string		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as lowercase</string>	Cast	Creates a lowercase version of the string provided.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as right trimmed</string>	Cast	Trims the trailing spaces from a string.
string		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as string</string>	Cast	Reflexive cast of string to string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<pre><string> as trimmed string</string></pre>	Cast	Trims the leading and trailing spaces off of the specified string.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as uppercase</string>	Cast	Creates an uppercase version of the string provided.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time interval=""> as string</time>	Cast	Returns a string formatted as
		 ddd days, HH:MM:SS.mmmmmm For example, millisecond as string = "
		00:00:00.001".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time zone=""> as string</time>	Cast	Creates a string containing a time zone. See <time< td=""></time<>
		zone>.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
<time> as local string</time>	Cast	Creates a string containing a time. See <time>.</time>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time> as string</time>	Cast	Creates a string containing a time. See <time>.</time>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time> as universal string</time>	Cast	Creates a string containing a time. See <time>.</time>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
character <integer></integer>	NumberedGlobal	Creates a string containing the single ASCII character for the decimal number provided.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
concatenation <string> of <string></string></string>	Named	Combines the second set of strings into a single string, separated by the first string.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
concatenation of <string></string>	Plain	Combines the supplied strings into a single string, end-to-end.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
hexadecimal string	NamedGlobal	Creates a string from the given hexadecimal value.
<string></string>		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
parameter <string></string>	NamedGlobal	This Inspector is a synonym for the parameter <string> of <action>. It looks up the value of the action parameter specified by <string>. This is used in conjunction with the parameter set command.</string></action></string>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
string <string></string>	NamedGlobal	Creates a string matching the name provided.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
<string> as boolean</string>	Cast	<boolean></boolean>	Returns a boolean value for the string. All possible capitalization's of "TRUE" and "FALSE" will convert successfully. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as date</string>	Cast	<date></date>	Casts a string as a date type.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<string> as</string>	Cast	<day of<="" td=""><td>Casts a string as a day of the month (eg. 28).</td></day>	Casts a string as a day of the month (eg. 28).
day_of_month		month>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as</string>	Cast	<day of<="" td=""><td>Casts a string as a day of the week.</td></day>	Casts a string as a day of the week.
day_of_week		week>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as floating point</string>	Cast	<floating point=""></floating>	Converts the contents of a string into a floating point number.
			Win:4.1, Mac:4.1
<string> as</string>	Cast	<string></string>	Converts a string to a hexadecimal number.
hexadecimal			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
<string> as integer</string>	Cast	<integer></integer>	Returns an integer value for the string provided. If the string contains anything but ASCII digits, the conversion will fail. Use numeric value for more liberal parsing rules.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as left</string>	Cast	<string></string>	Trims the leading spaces from a string.
trimmed string			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as local time</string>	Cast	<time></time>	Returns a local time object from a properly formatted string. See <time>.</time>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<pre><string> as local zoned time_of_day</string></pre>	Cast	<time day="" of="" td="" time<="" with=""><td>Converts a string to a time of day with local time zone.</td></time>	Converts a string to a time of day with local time zone.
		zone>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as lowercase</string>	Cast	<string></string>	Returns a lowercase version of the string provided.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as month</string>	Cast	<month></month>	Converts a string into a month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as right</string>	Cast	<string></string>	Trims the trailing spaces from a string.
trimmed string	trimmed string		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as string</string>	Cast	<string></string>	Returns the string provided.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
<string> as time</string>	Cast	<time></time>	Returns a time object from a properly formatted string. See <time>.</time>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as time interval</string>	Cast	<time interval=""></time>	Returns a time interval object from a properly formatted string. Expects strings formatted as • ddd days, HH:MM:SS.mmmmmm.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as time zone</string>	Cast	<time zone=""></time>	Returns a time zone object from a properly formatted string. See <time zone="">.</time>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as</string>	Cast	<time of<="" td=""><td>Converts a string to a time_of_day type.</td></time>	Converts a string to a time_of_day type.
time_of_day		day>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as trimmed string</string>	Cast	<string></string>	Trims the leading and trailing spaces off of the specified string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as universal time</string>	Cast	<time></time>	Returns a universal time object from a properly formatted string.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<pre><string> as universal zoned time_of_day</string></pre>	Cast	<time day="" of="" td="" time<="" with=""><td>Converts a string into a universal zoned time of day.</td></time>	Converts a string into a universal zoned time of day.
		zone>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as uppercase</string>	Cast	<string></string>	Returns an uppercase version of the string provided.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as version</string>	Cast	<version></version>	Returns a version if the string can be parsed as a version. The first numeric set of characters delimited with period, comma or comma-space is returned.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
<string> as windows display time</string>	Cast	<time></time>	Returns a Windows display time object from a properly formatted string. See <time>.</time>
			Win:1.2
<string> as year</string>	Cast	<year></year>	Converts a string into a year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<string> as zoned</string>	Cast	<time day<="" of="" td=""><td>Converts a string into a zoned time of day.</td></time>	Converts a string into a zoned time of day.
time_of_day		with time zone>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
character <integer> of <string></string></integer>	Numbered	<substring></substring>	Returns a string of length 1 made by taking the character identified by <integer> from the string. Numbering begins at zero. Example, Character 1 of "HI" is "I".</integer>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
character of <string></string>	Plain	<substring></substring>	Returns the characters from the string.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
concatenation <string> of <string></string></string>	Named	<string></string>	Concatenation <string1> of <string2> concatenates a list of strings indicated by string2, placing string1 between each.</string2></string1>
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
concatenation of <string></string>	Plain	<string></string>	Combines the supplied strings into a single string, end-to-end.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
escape of <string></string>	Plain	<string></string>	Returns a string containing a \\ for every \\ character found. Useful for setting registry key values to strings in regset action commands.
			Win:1.2
expand environment string of <string></string>	Plain	<string></string>	Uses the Windows ExpandEnvironmentStrings API to translate a string containing special Windows environment variables. For example, %windir%\my.dll might expand to c:\winnt\my.dll.
			Win:1.2
first <integer> of <string></string></integer>	Numbered	<substring></substring>	Returns a substring containing the number of characters specified from the given string. For example, First 5 of "To be or not to be" is "To be".
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
first <string> of <string></string></string>	Named	<substring></substring>	Returns a substring containing the first occurrence of the name provided. See substring. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
last <integer> of <string></string></integer>	Numbered	<substring></substring>	Returns a substring containing the number of characters specified. For example, Last 5 of "To be or not to be" is "to be".
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
last <string> of <string></string></string>	Named	<substring></substring>	Returns a substring containing the last occurrence of the name provided.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
length of <string></string>	Plain	<integer></integer>	Returns the number of characters in the string.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
numeric value of <string></string>	Plain	<integer></integer>	Returns an integer for the first numeric value in the string.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
position <integer> of <string></string></integer>	Numbered	<string position=""></string>	Returns a string position pointing to the character position specified. The first character is at position 0.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
position of <string></string>	Plain	<string< td=""><td>Returns the positions of the string.</td></string<>	Returns the positions of the string.
		position>	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
substring <string> of <string></string></string>	Named	<substring></substring>	Iterates through the string returning all the substrings matching the name given. For example, number of substrings "be" of "to be or not to be" = 2.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
substring after <string> of <string></string></string>	Named	<substring></substring>	Returns the substrings that come after the first string delimiter.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
substring before <string> of <string></string></string>	Named	<substring></substring>	Returns the substrings that come before the first string delimiter.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
substring between <string> of <string></string></string>	Named	<substring></substring>	Returns the substring in the second string found between two instances of the first string.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
substring separated by <string> of <string></string></string>	Named	<substring></substring>	Returns a substring (or set of substrings) delimited by the first string.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Key Phrase	Form	Return Type	Description
unique value of <string></string>	Plain	<string></string>	Returns the same strings, but with duplicates removed. • Note: As of version 6.0 of BES, this Inspector returns a <string multiplicity="" with="">. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1</string>
unique value of <string></string>	Plain	<string multiplicity="" with=""></string>	Given a list of strings, returns the count of each unique string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<rope> & <string></string></rope>	<rope></rope>	Concatenates a rope and a string, producing a rope.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<rope> contains <string></string></rope>	<boolean></boolean>	Returns boolean TRUE if the rope contains the string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> & <rope></rope></string>	<rope></rope>	Concatenates a rope and a string, returning a new rope.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> & <string></string></string>	<string></string>	Concatenates two strings, producing a new string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> {cmp} <string></string></string>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= .
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Note

Many Inspectors return string values from the operating system using a variety of APIs. For the most part, these strings are encoded as single-byte character sets (SBCSs) or multi-byte character sets (MBCSs) depending on the active code page. You can use the code page Inspectors to determine which page is currently active on the client.

Examples

- floating point "600987.9" as scientific notation
- ▶ Returns 6.009879e+5.

- floating point "6.009e8" as standard notation
- Returns 600900000.
- 255 as hexadecimal
- ▶ Returns the string "ff".
- concatenation ":" of (names of files of folder "c:\")
- Returns a single string with the names of each file in the specified path separated by a colon.
- concatenation of "light" & "year"
- Returns "lightyear".
- 01 Apr 2020 as date
- Returns Wed, 01 Apr 2020.
- Tue as day_of_week
- Returns Tuesday.
- 4.5 as floating point
- Returns 4.5.
- exists character whose (it is "z") of "Paul Cezanne"
- Returns True.
- concatenation "/" of ("a"; "b"; "c")
- Returns "a/b/c".
- concatenation of (name of it & ":") of files of folder "c:\"
- Returns a single string with the names of each file in the specified path separated by a colon.
- first 2 of pathname of regapp "bigfix.exe" as lowercase = "c:"
- Returns true if BigFix is installed on drive C:.
- preceding text of last "ab" of "abracadabra" is "abracad"
- Returns True.
- substrings after ":" of "definition: after the colon"
- ▶ Returns " after the colon".
- substrings before "<--" of "the item pointed to <--"
- Returns "the item pointed to".
- substrings between "*" of "the item *between* asterisks"
- Returns "between".

- substrings separated by "," of "1,2,3"
- Returns the list of numbers separated by commas in the specified string.
- multiplicities of unique values of ("steak"; "chop"; "rib";
 "rib"; "rib")
- Returns the multiplicity of (the number of times) each string in the list is used, namely, 1,3,1.
- Note that the multiplicities are based on the alphabetic order of the strings (chop, rib, steak), not their position in the list.

String Position

String position works in combination with the string and substring data types. A string position is a point within a string. It can be compared to an integer (which it is derived from), but it also acts as a pointer within a string so that the preceding and following text can be extracted. A substring (a part of a larger string) is derived from a string object.

Key Phrase	Form	Description
end of <substring></substring>	Plain	Creates an object corresponding to the position in the string of the end of the substring. For example, end of first "be" of "To be or not to be" = 5.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
position <integer> of <string></string></integer>	Numbered	Creates an index (zero based) into the string. For example, position 5 of "to be or not to be" = 5.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
position of <string></string>	Plain	Iterates through the string returning values for all possible positions within it. For example, number of positions of "hi" = 3. Note that the positions being counted here are 0, 1, and 2.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
start of <substring></substring>	Plain	Creates the position of the substring within its containing string. For example, Start of substring "or" of "to be or not to be" = 6.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
following text of <string position=""></string>	Plain	<substring></substring>	Returns the substring following the position in the string. For example, following text of position 5 of "0123456789" = "567890". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
preceding text of <string position=""></string>	Plain	<substring></substring>	Returns the substring preceding the position in the string. For example, preceding text of position 5 of "0123456789" = "01234". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Note

String positions can be compared and combined with integers using the same operations that are available for integers.

Examples

- preceding text of position 5 of "Four score and seven.."
- Returns "Four".

Substring

A substring object is derived from a string object, so it has all the properties of a string. Substrings also have these additional properties:

Key Phrase	Form	Description
character <integer> of <string></string></integer>	Numbered	Creates the single character substring at the position given within the string. For example, character 2 of "abc" = "c". Note that numbering begins at zero. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
character of <string></string>	Plain	Iterates through the string (or substring) returning substrings that contain the individual characters of the string. For example, number of characters of string "abc" = 3. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

	Form	Description
first <integer> of <string></string></integer>	Numbered	Creates a substring for the given number of characters at the start of the string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
first <string> of <string></string></string>	Named	Creates an object containing the first match of the given string. For example, first "be" of "to be or not to be" = "be".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
following text of <string position=""></string>	Plain	Creates an object containing the substring following the position in the string. For example, following text of position 5 of "0123456789" = "567890".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
following text of <substring></substring>	Plain	Creates an object containing the string following the substring. For example, following text of last "." of "log.txt" = "txt".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
last <integer> of <string></string></integer>	Numbered	Creates an object containing a substring from the last part of the string containing the number of characters specified. For example, Last 5 of "To be or not to be" is "to be".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
last <string> of <string></string></string>	Named	Creates a substring containing the last occurrence of the name provided.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
preceding text of <string position=""></string>	Plain	Creates the substring preceding the position in the string. For example, preceding text of position 5 of "0123456789" = "01234".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
preceding text of <substring></substring>	Plain	Creates an object containing the string preceding the substring. For example, preceding text of last "." of "log.txt" = "log".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
substring <string> of <string></string></string>	Named	Iterates through the string returning all the substrings matching the name given. For example, number of substrings "be" of "to be or not to be" = 2.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
substring after <string> of <string></string></string>	Named	Returns the substrings that come after the first string delimiter.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
substring before <string> of <string></string></string>	Named	Returns the substrings that come before the first string delimiter.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
substring between <string> of <string></string></string>	Named	Returns the substring in the second string found between two instances of the first string.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
substring separated by <string> of <string></string></string>	Named	Returns a substring (or set of substrings) delimited by the first string.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Key Phrase	Form	Return Type	Description
end of <substring></substring>	Plain	<string position=""></string>	Returns the position of the substring within its containing string. For example, end of first "be" of "to be or not to be" = 5. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
following text of <substring></substring>	Plain	<substring></substring>	Returns the string following the substring. For example, following text of last "." of "log.txt" = "txt". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
preceding text of <substring></substring>	Plain	<substring></substring>	Returns the string preceding the substring. For example, preceding text of last "." of "log.txt" = "log". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
start of <substring></substring>	Plain	<string position=""></string>	Returns the position within the string of the substring. For example, start of substring "or" of "to be or not to be" = 6. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Note

All the string operators can also be applied to substrings.

- first 2 of pathname of regapp "bigfix.exe" as lowercase = "c:"
- ▶ Returns true if BigFix is installed on drive C:.
- substrings after ":" of "definition: after the colon"
- ▶ Returns " after the colon".
- substrings before "<--" of "the item pointed to <--"
- ▶ Returns "the item pointed to".
- substrings between "*" of "the item *between* asterisks"
- Returns "between".
- substrings separated by "," of "1,2,3"
- ▶ Returns the list of numbers separated by commas in the specified string.

String With Multiplicity

These Inspectors deal with arrays of strings, allowing you to pluck out unique strings and count them.

Creation Methods

Key Phrase	Form	Description
unique value of <string></string>	Plain	Given a list of strings, returns the count of each unique string.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Properties

Key Phrase	Form	Return Type	Description
multiplicity of <string multiplicity="" with=""></string>	Plain	<integer></integer>	Returns the multiplicity (quantity) of each element in a multiple string list.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- unique values of ("steak"; "chop"; "rib"; "rib")
- Returns the unique values of the multiple strings in alphabetical order, namely chop, rib, steak.
- multiplicities of unique values of ("steak"; "chop"; "rib";
 "rib"; "rib")
- Returns the multiplicity of (the number of times) each string in the list is used, namely, 1,3,1.
- Note that the multiplicities are based on the alphabetic order of the strings (chop, rib, steak), not their position in the list.

Rope

The rope object is a way to efficiently concatenate long strings. String literals in the Relevence language are limited to 512 characters, but internally, they can be any length. Ropes provide a technique for concatenating string literals that is memory-efficient. In general, the Fixlet author will not need to worry about ropes, but they are useful for increasing efficiency.

Creation Methods

Key Phrase	Form	Description
rope <string></string>	NamedGlobal	Creates a rope object from the given string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
<rope> as string</rope>	Cast	<string></string>	Converts a rope into a string object. Once converted, all the other string properties are available. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
			, , ,
length of <rope></rope>	Plain	<integer></integer>	Returns the number of bytes in the rope.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key phrase	Return Type	Description
<rope> & <rope></rope></rope>	<rope></rope>	Concatenates two ropes into a new rope.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<rope> & <string></string></rope>	<rope></rope>	Concatenates a rope and a string, producing a rope.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
<rope> contains <string></string></rope>	<boolean></boolean>	Returns TRUE if the rope contains the string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> & <rope></rope></string>	<rope></rope>	Concatenates a rope and a string, returning a new rope.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1

Bit Set

A small, numbered collection of bits that can be examined and manipulated.

Key Phrase	Form	Description
<integer> as bit set</integer>	Cast	Returns the bits of the binary representation of the integer; bit zero is the least-significant bit.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
<integer> as bits</integer>	Cast	Returns the bits of the binary representation of the integer; bit zero is the least-significant bit.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
bit <integer></integer>	NumberedGlobal	Creates a <bit set=""> object representing the nth bit position as specified by the integer. The integer value must be between 0 and 63 corresponding to the bit position of interest.</bit>
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
bit set <string></string>	NamedGlobal	Returns the bits of the binary number given by the string.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
left shift <integer> of <bit set=""></bit></integer>	Numbered	A bit set which, at each position n >= delta, holds bit n-delta of the original bit set, where delta is the given integer.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Key Phrase	Form	Description
right shift <integer> of <bit set=""></bit></integer>	Numbered	A bit set which, at each position n, holds bit n+delta of the original bit set, where delta is the given shift integer. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Key Phrase	Form	Return Type	Description
 	Cast	<integer></integer>	Returns the integer whose binary representation matches the bit set.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
 bit set> as string	Cast	<string></string>	Returns the bits (0s and 1s) in a string format.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
bit <integer> of <bit set=""></bit></integer>	Numbered	<boolean></boolean>	Returns the value of the bit at the given <integer> position in the set.</integer>
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
least significant one bit of bit set>	Plain	<integer></integer>	Returns the least n such that bit n of the set is true.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
left shift <integer> of <bit set=""></bit></integer>	Numbered	 set>	A bit set which, at each position n >= delta, holds bit n-delta of the original bit set, where delta is the given integer.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
most significant one bit of bit set>	Plain	<integer></integer>	Returns the greatest n such that bit n of the set is true.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
one bit of <bit set=""></bit>	Plain	<integer></integer>	Returns the numbers n for which bit n of the set is true.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
right shift <integer> of <bit set=""></bit></integer>	Numbered	 dit set>	A bit set which, at each position n, holds bit n+delta of the original bit set, where delta is the given shift integer.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Key phrase	Return Type	Description
 	 bit set>	Returns the bits that are true in the left bit set and false in the right bit set.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
 	 bit set>	Returns the intersection of the two bit sets.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
 dit set> + bit set>	 dit set>	Returns the union of the two sets.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
 	<boolean></boolean>	Returns true if the corresponding bits of the two sets are equal.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
 	<boolean></boolean>	Returns false if for any n bit n of the left set is false, but bit n of the right set is true.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Examples

- bit 0 of 5
- Returns TRUE.
- bit 3 of bit 3
- Returns TRUE.

Regular Expression

These Inspectors let you use regular expressions (or regexes) in relevance statements. They use the boost library implementation of the 'POSIX-Extended' regular expression syntax, as documented at:

• http://www.boost.org/libs/regex/doc/syntax extended.html.

Key Phrase	Form	Description
case insensitive regex <string></string>	NamedGlobal	Creates a case-insensitive regular expression (regex) from the specified string.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
case insensitive regular	NamedGlobal	Same as case insensitive regex <string>.</string>
expression <string></string>		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
regex <string></string>	NamedGlobal	Creates a regex object from the given string.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
regular expression <string></string>	NamedGlobal	Same as regex <string>.</string>
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key phrase	Return Type	Description
<regular expression=""> = <string></string></regular>	<boolean></boolean>	Returns TRUE if the regular expression is equal to the specified string.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> = <regular expression></regular </string>	<boolean></boolean>	Returns TRUE if the regular expression is equal to the specified string.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> contains <regular expression=""></regular></string>	<boolean></boolean>	Returns TRUE if the specified string contains the contents of the regular expression.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> ends with <regular expression=""></regular></string>	<boolean></boolean>	Returns TRUE if the string ends with the contents of the regular expression.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> starts with <regular expression=""></regular></string>	<boolean></boolean>	Returns TRUE if the string starts with the contents of the regular expression.
		Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Examples

- regex ".+match.+" = "We will win the match tonight"
- Returns TRUE.
- regex ".*PATH.*" = line 1 of file "/etc/profile"
- ▶ Returns TRUE if the word "PATH" exists in line 1 of the given file.

Regular Expression Match

These Inspectors let you match regular expressions (or regexes) in relevance statements. They use the boost library implementation of the 'POSIX-Extended' regular expression syntax, as documented at:

• http://www.boost.org/libs/regex/doc/syntax_extended.html. These objects are derived from substring objects.

Creation Methods

Key Phrase	Form	Description
first match <regular expression=""> of <string></string></regular>	Indexed	Creates an object containing the first match to the regular expression in the given string. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
match <regular expression=""> of <string></string></regular>	Indexed	Creates an object containing all the matches to the regular expression in the given string. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
parenthesized part <integer> of <regular expression match></regular </integer>	Numbered	<substring></substring>	Returns the nth parenthetical (given by <integer>) in the specified regular expression match. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</integer>
parenthesized part of <regular expression<br="">match></regular>	Plain	<substring></substring>	Returns the parenthetical part of the specified regular expression match. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Examples

- first match (regex "to.+") of "just too hot to handle"
- Returns "too hot to handle".

Undefined

The "undefined" type is used as the result type of Inspectors that never return a value.

Creation Methods

Key Phrase	Form	Description
error <string></string>		Always fails; if an error message is generated, it is based on the given string.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Examples

- if FALSE then 1 else error "my error message"
- Returns the string: User-defined error: my error message.

Hertz

The hertz object is useful to measure clock cycles. It is used primarily to measure clock frequency by the speed of the processor Inspector. Hertz objects have a resolution of 1 hertz and are stored internally as a 64 bit signed integer.

Key Phrase	Form	Description
absolute value of <hertz></hertz>	Plain	Creates a hertz object with a positive value.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
ghz	PlainGlobal	Creates a hertz object corresponding to 1 giga-hertz. For example, ghz = 1000*mhz.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
greatest hz	PlainGlobal	Creates the largest hertz object that can be represented on the current machine. It returns the value 9,223,372,036,854,775,807 hertz.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
hz	PlainGlobal	Creates a hertz object corresponding to 1 hertz.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
khz	PlainGlobal	Creates a hertz object corresponding to 1 kilohertz. For example, khz = 1000*hz.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
least hz	PlainGlobal	Creates the largest negative hertz object that can be represented on the current machine. It returns the value -9,223,372,036,854,775,808 hertz. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
mhz	PlainGlobal	Creates a hertz object corresponding to 1 megahertz. For example, mhz = 1000*khz. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
significant digits <integer> of <hertz></hertz></integer>	Numbered	Rounds up the value of a hertz object with <integer> significant digits. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</integer>

Key Phrase	Form	Return Type	Description
<hertz> as string</hertz>	Cast	<string></string>	Returns a string formatted "##### hertz". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
absolute value of <hertz></hertz>	Plain	<hertz></hertz>	Returns the positive value of the hertz object. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
significant digits <integer> of <hertz></hertz></integer>	Numbered	<hertz></hertz>	Returns the value of a hertz object with <integer> significant digits (e.g significant digits 3 of 1235569 = 1240000). Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</integer>

Key phrase	Return Type	Description
- <hertz></hertz>	<hertz></hertz>	Returns the negative of the <hertz> value.</hertz>
		Win:2.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
<hertz> {cmp} <hertz></hertz></hertz>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<hertz> {op} <hertz></hertz></hertz>	<hertz></hertz>	Returns a hertz object equal to the result of the operation, where: • {op} is one of: +, -, mod . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key phrase	Return Type	Description
<hertz> {op} <integer></integer></hertz>		Returns a hertz object equal to the result of the operation, where: • {op} is one of: *, /. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

- speed of processor > 3*ghz
- ▶ Returns TRUE on machines faster than 3Ghz.
- greatest hz
- Returns a large positive value, such as 9223372036854775807 hertz.
- least hz
- Returns a large negative value, such as -9223372036854775808 hertz.
- significant digits 2 of speed of processor/mhz/ 1000 as floating point
- Returns a floating point representation of the processor speed in GHz, such as 3.4 ghz.
- significant digits 3 of 1235569
- Returns 1240000.
- speed of processor
- Returns the speed of the processor in hz, such as 3394000000 hertz for a 3.4 GHz computer.

Time

A time object is used to identify a point in time. Time objects are used to represent important properties of objects such as the modification time of a file. You can create time objects from literal strings. The format of the string is defined by the MIME standard. The difference between two Time objects may be calculated by subtracting them and yields time intervals. Time intervals may be added or subtracted from time objects to obtain time objects.

Key Phrase	Form	Description
<string> as local time</string>	Cast	Local time creates a time object by parsing the string literal provided. The time zone is optional. If not present, the local time zone is assumed. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
<string> as time</string>	Cast	Parses the string. Time zone information must be provided.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as universal time</string>	Cast	Parses the string. If time zone is not provided in the string, the universal time zone is assumed.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<string> as windows display time</string>	Cast	Parses the string. If time zone is not provided in the string, the current time zone in effect at the given time is assumed.
		Win:1.2
maximum of <time></time>	Plain	Returns the maximum time from a list of times.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
minimum of <time></time>	Plain	Returns the minimum time from a list of times.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
now	PlainGlobal	Creates an object for the current time.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
time <string></string>	NamedGlobal	The time inspector creates a time object by parsing the string literal provided. The zone info is required.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
universal time <string></string>	NamedGlobal	The universal time inspector returns a time object by parsing the string literal provided. The time zone is optional. If not present, universal time is assumed.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
windows display time <string></string>	NamedGlobal	Creates an object for a string that may match the time shown in the Windows file system.
		Win:1.2

Key Phrase	Form	Return Type	Description
<time> as local string</time>	Cast	<string></string>	Returns a string in MIME format of the given time object. The format is: ddd, DD mmm YYYY HH:MM:SS sZZZZ. The string is formatted using the local time zone. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
<time> as string</time>	Cast	<string></string>	Same as above.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time> as universal string</time>	Cast	<string></string>	Returns a string in MIME format of the given time object. The format is: • ddd, DD mmm YYYY HH:MM:SS +0000 • The string is formatted using the universal time zone. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
date <time zone=""> of <time></time></time>	Indexed	<date></date>	Returns the date adjusted for the specified time zone. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
maximum of <time></time>	Plain	<time></time>	Returns the maximum time from a list of times. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
minimum of <time></time>	Plain	<time></time>	Returns the minimum time from a list of times. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
time <time zone=""> of <time></time></time>	Indexed	<time of<br="">day with time zone></time>	Adjusts the specified time to the given time zone. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<time interval=""> & <time></time></time>	<time range></time 	Concatenates a time interval with a time, returning a time range of the form time1 to time2.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time range=""> & <time></time></time>	<time range></time 	Concatenates a time with a time range, producing a new time range, in the form of: • <date> to <date>.</date></date>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time> & <time interval=""></time></time>	<time range></time 	Concatenates a time and a time interval, producing a time range object.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time> & <time range=""></time></time>	<time range></time 	Concatenates a time and a time range, producing a new time range.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<time> & <time></time></time>	<time range></time 	Concatenates two times into a time range, with the earliest date first and the latest date last. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time> {cmp} <time></time></time>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time> {op} <time interval=""></time></time>	<time></time>	Returns a <time> corresponding to the operator, where: • {op} is one of: +, Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</time>

Note

The string format for a time object is given by the MIME standard. When output as a string, the format used is:

ddd, DD mmm YYYY HH:MM:SS sZZZZ

where:

ddd	The day of the week. Abbreviations are Mon, Tue, Wed, Thu, Fri, Sat, Sun.
DD	The day of the month. A leading zero will be applied to make it two characters wide.
mmm	The Month. Abbreviations are Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec.
YYYY	The year.
нн	The hour of the day. It is always output at two digits. Possible values run from 0 to 23. The digits 00 are used to designate midnight.
MM	The minutes of the hour. It is always output as two digits. Possible values run from 0 to 59.
SS	The seconds of the minute.
S	A single character representing whether the time is east or west of Greenwich. The value of + means east of Greenwich while the value - means west of Greenwich.
ZZZZ	The number of minutes east or west of Greenwich.

To create a string from a literal, use the format:ddd,DD mmm YYYY HH:MM:SS zoneinfo where:

ddd	The optional day of the week. Abbreviations are Mon, Tue, Wed, Thu, Fri, Sat, Sun. Case is not important in these names. If provided it must be correct. For example, time "Sat, 19 jun 1998 00:00:00 +0000" will fail since June 19, 1998 was a Friday.			
DD	The day of the month. One or two digits are allowed.			
mmm	The Month. Abbreviations are Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec. Case is not important.			
YYYY	The year. A two, three or four digit year. If two digits are given a base of 1900 is assumed.			
нн	The hour of the day. It is always input at two digits. Possible values run from 0 to 23. The digits 00 are used to designate midnight.			
MM	The minutes of the hour. It is always output as two digits. Possible values run from 0 to 59.			
SS	The seconds of the minute. Range from 0 to 59. This is optional. If seconds are not present, the preceding colon should also not be present			
Zoneinfo	The time zone information. It is provided in one of these formats: Single character + or - followed by 4 digits. The 4 digits are interpreted as HHMM two digits of hours and two digits of minutes. Plus designates east of universal time while minus designates west of universal time. Three letters for the civilian name of the time zone. cdt, edt, mdt, pdt are the designations for central, eastern, mountain and pacific daylight savings time while cst, est, mst, pst are the designations for central, eastern, mountain and pacific standard time. gmt designates Greenwich mean time. A single letter military name of the time zone. Military time zones use single letters from a to z, excepting j. a-m represent offsets from universal time of -1 to -12 hours respectively. z represents 0 offset.			

- maximum of (modification times of files of folder "temp" of windows folder)
- Returns the latest time stamp from the files in the windows temporary folder.
- minimum of (modification times of files of folder "temp" of windows folder)
- Returns the latest earliest stamp from the files in the windows temporary folder.
- now
- Returns the current time.
- time "Sat, 01 Jan 2000 00:00:00 -0400" & now
- Returns a time range from the beginning of the millennia to now, eg:
- Sat, 01 Jan 2000 00:00:00 -0400 to Sat, 08 Apr 2006 20:39:51 -0400.

Time Of Day

These Inspectors provide tools for dealing and calculating with time-of-day types, which are of the form HH:MM:SS, as in 12:59:59.

Key Phrase	Form	Description
<pre><string> as time_of_day</string></pre>		Converts a string to a time_of_day type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
midnight	PlainGlobal	Returns 00:00:00 as a time of day object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
noon	PlainGlobal	Returns 12:00:00 as a time of day object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
time of <time day="" of="" time="" with="" zone=""></time>	Plain	Returns the time of day, without the time zone information.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
time_of_day <string></string>	NamedGlobal	Creates a time of day object out of the given string.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<time day="" of=""> as string</time>	Cast	<string></string>	Casts the time of day as a string type.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
hour_of_day of < time of day>	Plain	<integer></integer>	Returns the hour section of the 'time of day' object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
minute_of_hour of <time day="" of=""></time>	Plain	<integer></integer>	Returns the 'minutes after the hour' section of the 'time of day' object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
second_of_minute of <time day="" of=""></time>	Plain	<integer></integer>	Extracts the 'seconds after the minute' section of the 'tim of day' object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
two digit hour of <time< td=""><td>Plain</td><td><string></string></td><td>Extracts the 2-digit hour from the time of day.</td></time<>	Plain	<string></string>	Extracts the 2-digit hour from the time of day.
of day>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
two digit minute of	Plain	<string></string>	Extracts the 2-digit minute from the time of day.
<time day="" of=""></time>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
two digit second of	Plain	<string></string>	Extracts the 2-digit second from the time of day.
<time day="" of=""></time>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<time day="" of=""> - <time of<="" td=""><td><time< td=""><td>Subtracts two times of day, returning a time interval.</td></time<></td></time></time>	<time< td=""><td>Subtracts two times of day, returning a time interval.</td></time<>	Subtracts two times of day, returning a time interval.
day>	interval>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time day="" of=""> & <time zone=""></time></time>	<time day="" of="" td="" time<="" with=""><td>Concatenates a time of day with a time zone, returning a time of day with time zone type.</td></time>	Concatenates a time of day with a time zone, returning a time of day with time zone type.
	zone>	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time day="" of=""> {cmp} <time day="" of=""></time></time>	<boolean></boolean>	Compares two times of day, where {cmp} is one of: <, <=, =.
		Win:6.0
day> with time zone>		Concatenates a time of day with a time zone, returning a time of day with time zone type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Time Zone

Time zones are used in conjunction with the time object. Time zones have a resolution of 1 minute.

Creation Methods

Key Phrase	Form	Description
<string> as time zone</string>	Cast	Creates a time zone object corresponding to the string provided. For example, "pst" as time zone.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
local time zone	PlainGlobal	Creates a time zone object corresponding to the local time zone.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
time zone <string> NamedO</string>		Creates a time zone object corresponding to the string provided. For example, time zone "edt" as string = "-0400". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
universal time zone	PlainGlobal	Creates a time zone object corresponding to the universal time zone.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
<time zone=""> as string</time>	Cast	<string></string>	Returns a string corresponding to the time zone object provided.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key phrase	Return Type	Description
<time day="" of=""> & <time zone=""></time></time>	<time day<br="" of="">with time zone></time>	Concatenates a time of day with a time zone, returning a time of day with time zone type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time zone=""> & <time day="" of="" time="" with="" zone=""></time></time>	<time day<br="" of="">with time zone></time>	Converts a 'time of day with time zone' to the time in the specified time zone. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<time zone=""> & <time day="" of=""></time></time>	<time day<br="" of="">with time zone></time>	Concatenates a time of day with a time zone, returning a time of day with time zone type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time zone=""> {op} <time interval=""></time></time>	<time zone=""></time>	Returns a time zone object offset by a time interval, where: • {op} is one of: +, Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

- local time zone 2 * hour
- Returns the time zone two hours away.

Time Of Day With Time Zone

These Inspectors provide tools for dealing and calculating with time-of-day-with-time-zone types, which are of the form HH:MM:SS +ZZZZ, as in 12:59:59 -0400.

Key Phrase	Form	Description
<string> as local zoned</string>	Cast	Converts a string to a time of day with local time zone.
time_of_day		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as universal zoned</string>	Cast	Converts a string into a universal zoned time of day.
time_of_day		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as zoned</string>	Cast	Converts a string into a zoned time of day.
time_of_day		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
time <time zone=""> of <time></time></time>	Indexed	Converts the specified time to the given time zone.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
zoned time_of_day <string></string>	NamedGlobal	Creates a 'zoned time of day' out of a string object in
		the form of HH:MM:SS +ZZZZ.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<time day="" of="" time="" with="" zone=""> as string</time>	Cast	<string></string>	Converts a 'time of day with time zone' object into a string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
hour_of_day of < time of day with time zone>	Plain	<integer></integer>	Returns the hour section of the 'time of day with time zone' object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
minute_of_hour of <time day="" of="" td="" time<="" with=""><td>Plain</td><td><integer></integer></td><td>Returns the 'minutes after the hour' section of the 'time of day with time zone' object.</td></time>	Plain	<integer></integer>	Returns the 'minutes after the hour' section of the 'time of day with time zone' object.
zone>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
second_of_minute of <time day="" of="" td="" time<="" with=""><td>Plain</td><td><integer></integer></td><td>Returns the 'seconds after the minute' section of the 'time of day with time zone' object.</td></time>	Plain	<integer></integer>	Returns the 'seconds after the minute' section of the 'time of day with time zone' object.
zone>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
time of <time day="" of="" time="" with="" zone=""></time>	Plain	<time day="" of=""></time>	Returns the time of day, without the time zone information.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
zone of <time day<br="" of="">with time zone></time>	Plain	<time zone></time 	Returns the zone associated with the specified time.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description	
<date> & <time day="" of="" time="" with="" zone=""></time></date>	<time></time>	Concatenates a date with a time and a time zone for a complete time stamp. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0	
<time day="" of="" time<br="" with="">zone> - <time day="" of="" with<br="">time zone></time></time>	<time interval></time 	Subtracts two times of day (including time zones), returning a time interval. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0	
<time day="" of="" time="" with="" zone=""> & <time a="" of="" time="" with="" zone=""></time></time>		Concatenates a 'time of day with a time zone' and another time zone. The 'time of day with time zone' object that is produced is adjusted to fit the appended time zone. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0	

Key phrase	Return Type	Description
<time day="" of="" time<br="" with="">zone> = <time day="" of="" with<br="">time zone></time></time>	<boolean></boolean>	Compares two times of day with time zone. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time zone=""> & <time day="" of="" time="" with="" zone=""></time></time>		Converts a 'time of day with time zone' to the time in the specified time zone. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- 12:00:00 -4000 as universal zoned time_of_day
- ▶ Returns 04:00:00 +0000.
- time (time zone "+0000") of now
- Returns the time in Greenwich, England.
- hour_of_day of time (universal time zone) of now
- ▶ Returns the hour of day in Greenwich, England.
- minute_of_hour of time (local time zone) of now
- Returns the current minute past the hour.
- time zone "+0000" & time (universal time zone) of now
- ▶ Returns the time in Greenwich, England.

Time Range

These Inspectors provide tools for dealing and calculating with time-range types, which are of the form <time> to <time>, such as Tue, 18 Apr 2006 16:46:07 -0400 to Wed, 19 Apr 2006 16:46:07 -0400

Key Phrase	Form	Description
final part <time interval=""> of <time range=""></time></time>	Indexed	Returns a time range with the specified interval, but ending on the final date of the time range. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
initial part <time interval=""> of <time range=""></time></time>	Indexed	Returns a time range starting with the first date of the time range and lasting for the specified interval. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Description
range after <time> of <time range=""></time></time>	Indexed	Returns a new time range, starting from the specified time and continuing through the end of the original range. The time must be within the range, or an error will result. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
range before <time> of <time range=""></time></time>	Indexed	Returns a new time range, starting from the original time in the specified range and continuting to the specified time. The time must be within the range, or an error will result. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<time range=""> as string</time>	Cast	<string></string>	Casts a time range as a string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
end of <time range=""></time>	Plain	<time></time>	Returns the end date of a time range.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
final part <time interval=""> of <time range=""></time></time>	Indexed	<time range=""></time>	Returns a time range with the specified interval, but ending on the final date of the time range. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
initial part <time interval> of <time range></time </time 	Indexed	<time range></time 	Returns a time range starting with the first date of the time range and lasting for the specified interval.
length of <time range=""></time>	Plain	<time interval></time 	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0 Returns the time interval (in days, hours, minutes, seconds) between the start and end date of a time range. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
range after <time> of <time range=""></time></time>	Indexed	<time range></time 	Returns a new time range, starting from the specified time and continuing through the end of the original range. The time must be within the range, or an error will result. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
range before <time> of <time range=""></time></time>	Indexed	<time range></time 	Returns a new time range, starting from the original time in the specified range and continuting to the specified time. The time must be within the range, or an error will result. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
start of <time range=""></time>	Plain	<time></time>	Returns the starting date of a time range.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<time range=""> & <time range=""></time></time>	<time range></time 	Returns the smallest range that contains both of the specified ranges (same as <time range=""> + <time range="">).</time></time>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time range=""> & <time></time></time>	<time range></time 	Concatenates a time with a time range, producing a new time range, in the form of: • <date> to <date>.</date></date>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time range=""> * <time range=""></time></time>	<time range></time 	Returns the intersection of the two specified time ranges, if one exists.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time range=""> + <time range=""></time></time>	<time range></time 	Returns the smallest range that contains both of the specified ranges (same as <time range=""> & <time range="">).</time></time>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time> & <time range=""></time></time>	<time range></time 	Concatenates a time and a time range, producing a new time range.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Examples

- (week & now) * (day & now)
- Returns a one-day time range (from yesterday to today).
- (week & now) + (day & now)
- Returns a one-week time range (from a week ago to today).

Time Interval

Time intervals are used in conjunction with the time object. Time intervals have a resolution of 1 microsecond.

Key Phrase	Form	Description
<string> as time interval</string>	Cast	Returns a time interval object from a properly formatted string. Expects strings formatted as • ddd days, HH:MM:SS.mmmmmm.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
absolute value of <time interval=""></time>	Plain	Creates the positive value of a time interval. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
day	PlainGlobal	Creates a time interval corresponding to 1 day. For example, 2 * day = 48 * hour.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
greatest time interval	PlainGlobal	Creates the largest time interval that can be represented on the current machine.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
hour	PlainGlobal	Creates a time interval corresponding to 1 hour. For example, day = 24 * hour.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
least time interval	PlainGlobal	Creates the largest negative time interval that can be represented on the current machine.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
maximum of <time interval=""></time>	Plain	Returns the maximum interval from a list of time intervals.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
microsecond	PlainGlobal	Creates a time interval corresponding to 1 microsecond. For example, 1000 * microsecond = 1 * millisecond.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
millisecond	PlainGlobal	Creates a time interval corresponding to 1 millisecond. For example, 1000 * millisecond = 1 * second.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Description
minimum of <time interval=""></time>	Plain	Returns the minimum interval from a list of time intervals.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
minute	PlainGlobal	Creates a time interval corresponding to 1 minute. For example, minute = 60 * second.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
second	PlainGlobal	Creates a time interval corresponding to 1 second. For example, 1000000 * microsecond = second.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
time interval <string></string>	NamedGlobal	Creates a time interval from the string.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
week	PlainGlobal	Creates a time interval corresponding to 1 week. For example, 7*day = 1*week.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
<time interval=""> as string</time>	Cast	<string></string>	Returns a string formatted as • ddd days, HH:MM:SS.mmmmm • For example, millisecond as string = " 00:00:00.001". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
absolute value of <time interval=""></time>	Plain	<time interval></time 	Returns positive value of the time interval. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
maximum of <time interval=""></time>	Plain	<time interval></time 	Returns the maximum interval from a list of time intervals. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
minimum of <time interval=""></time>	Plain	<time interval></time 	Returns the minimum interval from a list of time intervals. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
- <time interval=""></time>	<time< td=""><td>The negative of a time interval.</td></time<>	The negative of a time interval.
	interval>	Win:2.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
<time interval=""> & <time></time></time>	<time range></time 	Concatenates a time interval with a time, returning a time range of the form time1 to time2.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time interval=""> {op} <integer></integer></time>	<time interval></time 	Creates a time interval calculated as an integer operation on another time interval, where: • {op} is one of: *, /.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time interval=""> {op} <time interval=""></time></time>	<time interval></time 	Returns a calculated time interval, where: • {op} is one of: +, -, mod, /.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time interval=""> {op} <time zone=""></time></time>	<time interval></time 	Returns a calculated time interval, where: • {op} is one of: +,
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<time interval=""> + <time day="" of="" time="" with="" zone=""></time></time>	<time day<br="" of="">with time zone></time>	Adds a time interval (days, hours, minutes, seconds) to a time of the day with time zone to create a new time of the day with time zone.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time interval=""> + <time day="" of=""></time></time>	<time day="" of=""></time>	Adds a time interval (days, hours, minutes, seconds) to a time of the day to create a new time of the day.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><time day="" of="" time="" with="" zone=""> {op} <time interval=""></time></time></pre>	<time day<br="" of="">with time zone></time>	Adds or subtracts a time interval and a specified 'time of day with time zone' object, where {op} is one of: -, +.
		Win:6.0
<time day="" of=""> {op} <time interval=""></time></time>	<time day="" of=""></time>	Adds or subtracts a time interval to provide a new time of day. Here {op} is one of: -, +.
		Win:6.0
<time> & <time interval=""></time></time>	<time range></time 	Concatenates a time and a time interval, producing a time range object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- maximum of ("00:00:00" as time interval; "01:01:01"as time
 interval)
- Returns 01:01:10.
- minimum of ("00:00:00" as time interval; "01:01:01"as time
 interval)
- Returns 00:00:00.
- time interval "01:00:00" & now
- Returns a one-hour time range ending now, eg. Fri, 07 Apr 2006 12:36:10 -0400 to Fri, 07 Apr 2006 13:36:10 -0400.

Date

These are the various Inspectors that access the date types.

Key Phrase	Form	Description
<string> as date</string>	Cast	Casts a string as a date type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
april <integer> of <integer></integer></integer>	Numbered	Returns the nth day of april and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
august <integer> of <integer></integer></integer>	Numbered	Returns the nth day of August and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current date	PlainGlobal	Returns the current date in the format: • Day of week, Day Month Year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
date <string></string>	NamedGlobal	Converts the given string into a date. The string should be of the form 'Day Month Year' and the returned date will be of the form 'Day of week, Day Month Year'. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
date <time zone=""> of <time></time></time>	Indexed	Returns the date adjusted for the specified time zone.
date \time zone of \time	Тпиехеи	Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Description
december <integer> of <integer></integer></integer>	Numbered	Returns the nth day of December and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
february <integer> of <integer></integer></integer>	Numbered	Returns the nth day of February and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
january <integer> of <integer></integer></integer>	Numbered	Returns the nth day of January and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
july <integer> of <integer></integer></integer>	Numbered	Returns the nth day of July and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
june <integer> of <integer></integer></integer>	Numbered	Returns the nth day of June and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
march <integer> of <integer></integer></integer>	Numbered	Returns the nth day of March and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
may <integer> of <integer></integer></integer>	Numbered	Returns the nth day of May and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
november <integer> of <integer></integer></integer>	Numbered	Returns the nth day of November and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
october <integer> of <integer></integer></integer>	Numbered	Returns the nth day of October and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
september <integer> of <integer></integer></integer>	Numbered	Returns the nth day of September and the specified year as a date (day of week, month day year).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<date> as string</date>	Cast	<string></string>	Cast a date type as a string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_month of <date></date>	Plain	<day month="" of=""></day>	Extracts the day of the month from the specified date.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_week of <date></date>	Plain	<day of="" week=""></day>	Extracts the day of the week (Monday, Tuesday, etc.) from the specified date.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_year of <date></date>	Plain	<day of="" year=""></day>	Extracts the day of year from the specified date, in the 'Month Day' format.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month of <date></date>	Plain	<month></month>	Returns the month derived from the given date.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month_and_year of <date></date>	Plain	<month and="" year=""></month>	Formats the specified date in month year format, eg. March 2012.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year of <date></date>	Plain	<year></year>	Returns the year, extracted from the given date.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<date> - <date></date></date>	<time interval></time 	Subtracts two dates to produce a time interval.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><date> & <time day="" of="" time="" with="" zone=""></time></date></pre>	<time></time>	Concatenates a date with a time and a time zone for a complete time stamp.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><date> {op} <number months="" of=""></number></date></pre>	<date></date>	Adds or subtracts a specified number of months to a given date, where {op} is one of: -, +.
		Win:6.0
<pre><date> {op} <time interval=""></time></date></pre>	<date></date>	Add or subtract a time interval to a date, producing a new date, where {op} is one of: -, +.
		Win:6.0

Key phrase	Return Type	Description
<number months="" of=""> + <date></date></number>	<date></date>	Adds a number of months to a date, returning a new date. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time interval=""> + <date></date></time>	<date></date>	Adds a time interval (days, hours, minutes, seconds) to a date to create a new date. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time day="" of="" time="" with="" zone=""> & <date></date></time>	<time></time>	Concatenates a 'time of day with time zone' object with a date object to produce a time object. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- 01 Apr 2020 as date
- Returns Wed, 01 Apr 2020.
- april 1 of 2020
- Returns Wed, 01 Apr 2020..
- date "09 Apr 2006"
- Returns Sun, 09 Apr 2006.
- now time "Sat, 01 Jan 2000 00:00:00 -0000"
- Returns the number of days, hours, minutes and seconds since the turn of the millennia, eg: 2288 days, 17:53:06.
- current date + 14*month
- Returns the date 14 months from today, eg. Mon, 07 Jan 2008.
- current date + time interval "7 days"
- Returns the date a week from now.

Day Of Week

These Inspectors provide tools for dealing and calculating with day-of-week types, which include Monday, Tuesday, etc. This set of Inspectors includes each day as a self-named object.

Key Phrase	Form	Description
<string> as day_of_week</string>	Cast	Casts a string as a day of the week.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current day_of_week	PlainGlobal	Retruns the current day of the week, eg. Monday, Tuesday, etc.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_week <string></string>	NamedGlobal	Converts the given string value to a day of week type, eg. Monday, Tuesday, etc.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_week of <date></date>	Plain	Extracts the day of the week from the specified date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
friday	PlainGlobal	Returns Friday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
monday	PlainGlobal	Returns the day of week object for Monday.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
saturday	PlainGlobal	Returns Saturday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
sunday	PlainGlobal	Returns Sunday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
thursday	PlainGlobal	Returns Thursday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
tuesday	PlainGlobal	Returns Tuesday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
wednesday	PlainGlobal	Returns Wednesday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<day of="" week=""> as string</day>	Cast	<string></string>	Casts the day of week as a string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<day of="" week=""> as three letters</day>	Cast	<string></string>	Casts the day of week as a three-letter abbreviation (Mon, Tue, etc.). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Operators

Key phrase	Return Type	Description
<day of="" week=""> - <day of="" week=""></day></day>	<time interval></time 	Subtract two day of week types (Monday, Tuesday, etc.) to produce a time interval. The answer cannot exceed 6 days.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day of="" week=""> {op} <time interval=""></time></day></pre>	<day of<br="">week></day>	Add or subtract a time interval from a day of the week to produce a new day of week. Here {op} is one of: -, +.
<day of="" week=""> = <day of="" week=""></day></day>	<boolean></boolean>	Compares two days of the week and returns a boolean TRUE or FALSE. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time interval=""> + <day of="" week=""></day></time>	<day of<br="">week></day>	Adds a time interval (days, hours, minutes, seconds) to a day of the week to create a new day of the week. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- Tue as day_of_week
- Returns Tuesday.
- day_of_week "Tuesday"
- Returns Tuesday as a 'day of week' object.
- Saturday as three letters
- Returns Sat.
- Friday Wednesday
- Returns 2.

Day Of Month

These Inspectors provide tools for dealing and calculating with day-of-month types, which are numbers from 1-31.

Creation Methods

Key Phrase	Form	Description
<integer> as</integer>	Cast	Cast an integer as a day of the month type.
day_of_month		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as day_of_month</string>	Cast	Casts a string as a day of month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current day_of_month	PlainGlobal	Returns the current day of the month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day of <day of="" year=""></day>	Plain	Returns the day of the month of the specified date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_month <integer></integer>	NumberedGlobal	Converts the given integer to a day of month type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_month <string></string>	NamedGlobal	Converts the given string value (must be an integer from 1-31) to a day of month type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_month of <date></date>	Plain	Extracts the day of the month from the specified date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<day month="" of=""> as integer</day>	Cast	<integer></integer>	Cast a day of month type as an integer. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<day month="" of=""> as string</day>	Cast	<string></string>	Cast a day of month type as a string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<day month="" of=""> as two digits</day>	Cast	<string></string>	Cast a day of month type as a two-digit number. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Operators

Key phrase	Return Type	Description
<day month="" of=""> - <day month="" of=""></day></day>	<time interval></time 	Subtract two day of month types, producing a time interval.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day month="" of=""> & <month and="" year=""></month></day></pre>	<date></date>	Concatenate a day of month with a month and year type to produce a complete date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<day month="" of=""> & <month></month></day>	<day of<br="">year></day>	Concatenate a day of month with a month type to produce a day of year (eg. April 20).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day month="" of=""> {cmp} <day month="" of=""></day></day></pre>	<boolean></boolean>	Compare two day of month types, where {cmp} is one of: <, <=, =.
		Win:6.0
<pre><day month="" of=""> {op} <time interval=""></time></day></pre>	<day month="" of=""></day>	Add or subtract a time interval from a day of month to produce a new day of month. Here {op} is one of: -, +.
		Win:6.0
<month and="" year=""> & <day month="" of=""></day></month>	<date></date>	Concatenates a month and year with a day of month to produce a complete date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> & <day month="" of=""></day></month>	<day of="" year=""></day>	Concatenates a month and a day of the month to produce a day of year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time interval=""> + <day month="" of=""></day></time>	<day month="" of=""></day>	Adds a time interval (days, hours, minutes, seconds) to a day of the month to create a new day of the month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- day of July 4
- Returns 4.
- day_of_month of current date
- Returns the current day of the month.
- current day_of_month as integer
- Returns the day of the month as an integer.

- (day_of_month 2) & june of 2008
- Returns Mon, 02 Jun 2008.
- (day_of_month 2) & june
- Returns June 2.

Day Of Year

These Inspectors provide tools for dealing and calculating with day-of-month types, which are of the form Sun, 01 Apr 2007.

Key Phrase	Form	Description
april <integer></integer>	NumberedGlobal	Returns the nth day of april as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
august <integer></integer>	NumberedGlobal	Returns the nth day of August as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current day_of_year	PlainGlobal	Retruns the current day of the year, in a Month Day format.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_year of <date></date>	Plain	Extracts the day of year from the specified date, in the 'Month Day' format.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
december <integer></integer>	NumberedGlobal	Returns the nth day of December as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
february <integer></integer>	NumberedGlobal	Returns the nth day of February as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
january <integer></integer>	NumberedGlobal	Returns the nth day of January as a 'day of year' type (month day). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
july <integer></integer>	NumberedGlobal	

Key Phrase	Form	Description
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
june <integer></integer>	NumberedGlobal	Returns the nth day of June as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
march <integer></integer>	NumberedGlobal	Returns the nth day of March as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
may <integer></integer>	NumberedGlobal	Returns the nth day of May as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
november <integer></integer>	NumberedGlobal	Returns the nth day of November as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
october <integer></integer>	NumberedGlobal	Returns the nth day of October as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
september <integer></integer>	NumberedGlobal	Returns the nth day of September as a 'day of year' type (month day).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<day of="" year=""> as string</day>	Cast	<string></string>	Casts a day of the year as a string type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day of <day of="" year=""></day>	Plain	<day month="" of=""></day>	Returns the day of the month of the specified date. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month of <day of="" year=""></day>	Plain	<month></month>	Returns the month portion of the given date (in month day format). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<pre><day of="" year=""> - <day of="" year=""></day></day></pre>	<time interval></time 	Subtracts two days of the year to produce a time interval.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day of="" year=""> & <month and="" year=""></month></day></pre>	<date></date>	Concatenates a day of the year with a month and year to create a complete date type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day of="" year=""> & <year></year></day></pre>	<date></date>	Concatenates a day of the year with a year to create a complete date type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day of="" year=""> {cmp} <day of="" year=""></day></day></pre>	<boolean></boolean>	Compares two days of the year, producing a boolean TRUE or FALSE, where {cmp} is one of: <, <=, =.
		Win:6.0
<pre><day of="" year=""> {op} <number months="" of=""></number></day></pre>	<day of<br="">year></day>	Add or subtract a number of months to a day of the year to produce a new day of the year. Here {op} is one of: -, +.
		Win:6.0
<pre><day of="" year=""> {op} <time interval=""></time></day></pre>	<day of<br="">year></day>	Add or subtract a time interval to a day of the year to produce a new day of the year. Here {op} is one of: -, +.
		Win:6.0
<pre><month and="" year=""> & <day of="" year=""></day></month></pre>	<date></date>	Concatenates a month and year with a day of year to produce a complete date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><number months="" of=""> + <day of="" year=""></day></number></pre>	<day of<br="">year></day>	Adds a number of months to a day of the year (July 4, say) to produce another day of the year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<time interval=""> + <day of="" year=""></day></time>	<day of="" year=""></day>	Adds a time interval (days, hours, minutes, seconds) to a day of the year to create a new day of the year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><year> & <day of="" year=""></day></year></pre>	<date></date>	Concatenates a year with the day of the year, returning a full date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- year 2020 & april 1
- Returns Sun, 01 Apr 2007.

Month

These Inspectors provide tools for dealing and calculating with month types, which are of the form January, February, etc. This set of Inspectors includes each month as a self-named object.

Key Phrase	Form	Description
<integer> as month</integer>	Cast	Returns the name of the nth month of the year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as month</string>	Cast	Converts a string into a month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
april	PlainGlobal	Returns april as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
august	PlainGlobal	Returns August as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current month	PlainGlobal	Returns the current month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
december	PlainGlobal	Returns December as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
february	PlainGlobal	Returns February as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
january	PlainGlobal	Returns January as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
july	PlainGlobal	Returns July as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
june	PlainGlobal	Returns June as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
march	PlainGlobal	Returns March as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
may	PlainGlobal	Returns May as an object of type month.

Key Phrase	Form	Description
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month <integer></integer>	NumberedGlobal	Returns the month type corresponding to the given <integer>.</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month <string></string>	NamedGlobal	Returns a month type corresponding to the given <string>.</string>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month of <date></date>	Plain	Returns the month of the given date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month of <day of="" year=""></day>	Plain	Returns the month portion of the given date (in month day format).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month of <month and="" year=""></month>	Plain	Returns the month portion of the given date (in month year format).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
november	PlainGlobal	Returns November as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
october	PlainGlobal	Returns October as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
september	PlainGlobal	Returns September as an object of type month.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<month> as integer</month>	Cast	<integer></integer>	Converts the given month into an integer (1-12).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> as string</month>	Cast	<string></string>	Converts the given month into a string value.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> as three letters</month>	Cast	<string></string>	Converts the given month into a 3-letter string (Jan, Feb, etc.).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> as two digits</month>	Cast	<string></string>	Converts the month into a two digit number (01 - 12).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<day month="" of=""> & <month></month></day>	<day of="" year=""></day>	Concatenate a day of month with a month type to produce a day of year (eg. April 20).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> - <month></month></month>	<number months="" of=""></number>	Subtracts two months, returning a positive number of months. If the first month is earlier than the second, it assumes the year has rolled over. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> & <day month="" of=""></day></month>	<day of<br=""> year></day>	Concatenates a month and a day of the month to produce a day of year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> & <year></year></month>	<month and="" year=""></month>	Returns a date (in month year format) from the concatenation of a month and a year. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
	<u> </u>	Will.0.0, Elil.0.0, 501.0.0, 111 OX.0.0, AIX.0.0
<month> {cmp} <month></month></month>	<boolean></boolean>	Compares the values of two months, where {cmp} is one of: <, <=, =.
		Win:6.0
<month> {op} <number months="" of=""></number></month>	<month></month>	Adds or subtracts a number of months from the given month. Here {op} is one of: -, +.
		Win:6.0

Key phrase	Return Type	Description
<number months="" of=""> + <month></month></number>	<month></month>	Adds a number of months to the given month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<year> & <month></month></year>	<month and<br="">year></month>	Returns a date (in month year format) from the concatenation of a month and a year. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- 5 as month
- Returns May.
- january as month 1 * month
- Returns December (one month before January).
- current month + 2*month
- Returns the name of the month, two months from today.
- month 9
- Returns September.
- month "jun"
- Returns June.
- month of current date
- Returns the current month, eg. September.
- month of (day_of_year of (current date + 40*day))
- Returns the name of the month 40 days from today, eg. October.
- january as three letters
- Returns Jan.
- january as two digits
- Returns 01.
- december current month
- Returns the number of months left until december. If the current month is April, it returns 8 months.
- December 3 & "2032" as year
- Returns Fri, 03 Dec 2032.

- July <= current month
- Returns true in the second half of the year, when the month is greater than or equal to July.
- current month + 2*month
- Returns the name of the month two months from now. If it's currently January, this would return March.
- year 2134 & april
- Returns April 2134.

Month And Year

These Inspectors provide tools for dealing and calculating with month-and-year types, which are of the form month of year, eg., January of 2007.

Key Phrase	Form	Description
april of <integer></integer>	Plain	Creates a date (in month year format) corresponding to april of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
august of <integer></integer>	Plain	Creates a date (in month year format) corresponding to August of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current month_and_year	PlainGlobal	Returns the current date in month year format, eg. January 2012.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
december of <integer></integer>	Plain	Creates a date (in month year format) corresponding to December of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
february of <integer></integer>	Plain	Creates a date (in month year format) corresponding to February of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
january of <integer></integer>	Plain	Creates a date (in month year format) corresponding to January of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
july of <integer></integer>	Plain	Creates a date (in month year format) corresponding to July of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Description
june of <integer></integer>	Plain	Creates a date (in month year format) corresponding to June of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
march of <integer></integer>	Plain	Creates a date (in month year format) corresponding to March of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
may of <integer></integer>	Plain	Creates a date (in month year format) corresponding to May of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month_and_year of <date></date>	Plain	Formats the specified date in month year format, eg. March 2012.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
november of <integer></integer>	Plain	Creates a date (in month year format) corresponding to November of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
october of <integer></integer>	Plain	Creates a date (in month year format) corresponding to October of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
september of <integer></integer>	Plain	Creates a date (in month year format) corresponding to September of the specified year (as an <integer>).</integer>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<month and="" year=""> as string</month>	Cast	<string></string>	Casts a date (in month year format) as a string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first <day of="" week=""> of <month and="" year=""></month></day>	Indexed	<date></date>	Finds the specific date corresponding to the first day of the week (eg. Friday) for a given month and year. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first friday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Friday of any given month and year. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
first monday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Monday of any given month and year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first saturday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Saturday of any given month and year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first sunday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Sunday of any given month and year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first thursday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Thursday of any given month and year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first tuesday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Tuesday of any given month and year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
first wednesday of <month and="" year=""></month>	Plain	<date></date>	Finds the date corresponding to the first Wednesday of any given month and year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
length of <month and="" year=""></month>	Plain	<time interval=""></time>	Returns the number of days in the specified month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month of <month and="" year=""></month>	Plain	<month></month>	Returns the name of the month corresponding to the given date.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year of <month and="" year=""></month>	Plain	<year></year>	Returns the year portion of the specified date (in month year format).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Operators

Key phrase	Return Type	Description
<pre><day month="" of=""> & <month and="" year=""></month></day></pre>	<date></date>	Concatenate a day of month with a month and year type to produce a complete date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><day of="" year=""> & <month and="" year=""></month></day></pre>	<date></date>	Concatenates a day of the year with a month and year to create a complete date type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month and="" year=""> - <month and="" year=""></month></month>	<number months="" of=""></number>	Subtracts two dates (in month year format), returning a number of months.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month and="" year=""> {cmp} <month and="" year=""></month></month>	<boolean></boolean>	Compares two dates (in month year format), where {cmp} is one of: <, <=, =.
		Win:6.0
<month and="" year=""> {op} <number months="" of=""></number></month>	<month and="" year=""></month>	Adds or subtracts a number of months from a given date (in month year format), where {op} is one of: -, +.
		Win:6.0
<number months="" of=""> + <month and="" year=""></month></number>	<month and="" year=""></month>	Adds a number of months to a given date (in month year format) producing a new date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- month_and_year of current date
- ▶ Returns the current date formatted as month year, eg. April, 2006.
- first monday of april of 2020
- ▶ Returns the date of the first Monday in April 2020, which is Mon, 06 Apr 2020.
- length of (month "February" & year "2004")
- Returns 29.
- month of date "Sun, 02 Apr 2006" + 2*month
- Returns June.
- year of current date
- Returns the current year, eg. 2006.

- January of 2020 current month_and_year
- Returns a time interval measured to the nearest month, such as 13 years, 9 months.
- january of 2009 < current month_and_year</pre>
- Evaluates to TRUE when the current date is later than the specified date. This phrase could serve as an expiration flag.
- current month_and_year + 18*month
- Gives a date 18 months ahead of the current date, eg. October 2007.

Number Of Months

These Inspectors provide tools for dealing and calculating with number-of-month types, which are similar to integers, but wih yearly roll-over.

Creation Methods

Key Phrase	Form	Description
month	PlainGlobal	Returns the specified number of months.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year	PlainGlobal	Returns the specified number of years as a <number months="" of=""> type.</number>
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Properties

Key Phrase	Form	Return Type	Description
<number months="" of=""> as string</number>	Cast	<string></string>	Converts a number of months type into a string type.
String			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
- <number months="" of=""></number>	<number months="" of=""></number>	Creates the negative of the specified number of months. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<number months="" of=""> {cmp} <number months="" of=""></number></number>	<boolean></boolean>	Compare two numbers of months, where {cmp} is one of: <, <=, =. Win:6.0

Key phrase	Return Type	Description
<number months="" of=""> {op} <number months="" of=""></number></number>	<number months="" of=""></number>	Multiplies or divides a number of months by an integer. Here {op} is one of: *, /.
		Win:6.0
<number months="" of=""> + <year></year></number>	<year></year>	Returns the year after adding the specified number of months.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<pre><year> {op} <number months="" of=""></number></year></pre>	<year></year>	Adds or subtracts the specified number of months to derive a new year. Here {op} is one of: -, +.
		Win:6.0

- 24*month
- Returns 2 years.
- year 1984 + 264*month
- Returns 2006.

Year

These Inspectors provide tools for dealing and calculating with year types, which are of the form YYYY, as in 2008.

Key Phrase	Form	Description
<integer> as year</integer>	Cast	Casts an integer as a year type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<string> as year</string>	Cast	Converts a string into a year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current year	PlainGlobal	Returns the current year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year <integer></integer>	NumberedGlobal	Creates a year object from the specified integer.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year <string></string>	NamedGlobal	Creates a year object from the specified string.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Description
year of <date></date>	Plain	The year derived from the given date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year of <month and="" year=""></month>	Plain	Returns the year portion of the specified date (in month year format).
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<year> as integer</year>	Cast	<integer></integer>	Casts a year as an integer.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<year> as string</year>	Cast	<string></string>	Casts a year as a string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
leap of < year>	Plain	<boolean></boolean>	Returns a flag indicating whether or not the specified year is a leap year.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
length of <year></year>	Plain	<time interval=""></time>	Returns the number of day in the specified year. Leap years have 366 days.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<day of="" year=""> & <year></year></day>	<date></date>	Concatenates a day of the year with a year to create a complete date type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<month> & <year></year></month>	<month and="" year=""></month>	Returns a date (in month year format) from the concatenation of a month and a year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<year> - <year></year></year>	<number months="" of=""></number>	Subtracts two years and produces a time interval marked in months and years.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<year> & <day of="" year=""></day></year>	<date></date>	Concatenates a year with the day of the year, returning a full date.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key phrase	Return Type	Description
<year> & <month></month></year>	<month and="" year=""></month>	Returns a date (in month year format) from the concatenation of a month and a year.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<year> {cmp} <year></year></year>	<boolean></boolean>	Compares two years, where {cmp} is one of: <, <=, =.
		Win:6.0

- length of year "2008"
- Returns 366.
- year 2020 year 2008
- Returns 12 years.
- year 2080 > current year
- Returns TRUE until the year 2080.

World Objects

World

All objects created without context are known as 'properties of the world' in the relevance language. Below is a list of these global properties, sorted by key phrase.

Key Phrase	Form	Return Type	Description
action	PlainGlobal	<action></action>	Returns the action currently being parsed.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
action <integer></integer>	NumberedGlobal	<action></action>	Returns the action matching the <integer> id.</integer>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
action lock state	PlainGlobal	<action lock<="" td=""><td>Returns the client action lock state.</td></action>	Returns the client action lock state.
		state>	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
active action	PlainGlobal	<action></action>	Returns the action currently executing.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
active device	PlainGlobal	<active device=""></active>	Returns a list of all active devices found using the Configuration Manager SetupDiGetClassDevs NT API.
			Win:1.2
active device file	PlainGlobal	<file></file>	Under Windows NT, returns a list of file objects corresponding the list returned from the Windows NT EnumDeviceDrivers() function.
			Win:1.2
active device file <string></string>	NamedGlobal	<file></file>	Under Windows NT, returns a file object corresponding to the name provided. See file.
			Win:1.2
all firewall scope	PlainGlobal	<firewall scope=""></firewall>	Returns the scope of computers that allow ALL traffic through the firewall, corresponding to the Microsoft enumerated type NET_FW_SCOPE_ALL.
anai aa da mas -	Dlain Clabal	cint a san	Win:5.1 Deturns on integer value of the Windows ADI
ansi code page	PlainGlobal	<integer></integer>	Returns an integer value of the Windows API GetACP.
			Win:4.1

Key Phrase	Form	Return Type	Description
any ip version	PlainGlobal	<ip version=""></ip>	Returns a type corresponding to the Microsoft enumerated value NET_FW_IP_VERSION_ANY. Win:5.1
apparent registration server time	PlainGlobal	<time></time>	Shorthand for 'now of registration server'. When the client registers with the server, the server passes its current time back to the client. The client starts a stop watch at that time. The apparent registration server time is the time the server passed back to the client, plus the elapsed time on the stop watch. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
application <string></string>	NamedGlobal	<application></application>	Returns an application for the name provided. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:4.1
application event log	PlainGlobal	<event log=""></event>	Returns the object corresponding to the application event log, which records certain application events, such as the failure of MS SQL to access a database. Win:6.0
application usage summary	PlainGlobal	<application summary="" usage=""></application>	Returns an application usage summary containing information including the start time, duration and other statistics on client applications. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
application usage summary <string></string>	NamedGlobal	<application summary="" usage=""></application>	Returns the usage summary for the application specified in <string>. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</string>
april	PlainGlobal	<month></month>	Returns april as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
april <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of april as a 'day of year' type (month day). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
audit failure event log event type	PlainGlobal	<pre><event event="" log="" type=""></event></pre>	Returns an object corresponding to an audit failure an event related to the failed execution of an action. Win:6.0
audit success event log event type	PlainGlobal	<pre><event event="" log="" type=""></event></pre>	Returns an object corresponding to an audit success in an event log. Win:6.0

Key Phrase	Form	Return Type	Description
august	PlainGlobal	<month></month>	Returns August as an object of type month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
august <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of August as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
backoffice bit <operating system suite mask></operating 	IndexedGlobal	<boolean></boolean>	Returns TRUE if the backoffice bit of the Windows operating system suite mask is set. Win:6.0
binary operator <string></string>	NamedGlobal	 operator>	Typically used in the plural, returns the various possible binary inspectors that use the specified operators.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
binary operator returning	IndexedGlobal	 binary operator>	Returns a list of binary operators that return the specified type.
<type></type>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
bit <integer></integer>	NumberedGlobal	 dit set>	Returns TRUE or FALSE, corresponding to value of the bit specified by <integer>.</integer>
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
bit set <string></string>	NamedGlobal	 dit set>	Returns the bits of the binary number given by the string.
			Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
blade bit <pre><pre><pre><pre></pre></pre></pre></pre>	IndexedGlobal	<boolean></boolean>	Returns TRUE if the blade bit of the Suite Mask (a part of the Windows OS version) is set.
system suite mask>			Win:6.0
boolean	NamedGlobal	 boolean>	Returns a boolean. For example, boolean "TRUE".
<string></string>			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
case insensitive regex <string></string>	NamedGlobal	<regular expression=""></regular>	Returns a case-insensitive regular expression from the supplied string.
			Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
case insensitive regular expression <string></string>	NamedGlobal	<regular expression></regular 	Same as case insensitive regex <string>. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</string>

Key Phrase	Form	Return Type	Description
cast <string></string>	NamedGlobal	<cast></cast>	Returns a list of the objects that can be cast into the type specified by <string>.</string>
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
cast returning <type></type>	IndexedGlobal	<cast></cast>	Returns a list of the objects that can be cast into the specified type.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
character <integer></integer>	NumberedGlobal	<string></string>	Returns a string containing a single ASCII character. For example, character 90 = "Z".
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
client	PlainGlobal	<cli><cli><cli><</cli></cli></cli>	Returns the client object corresponding to the BigFix application evaluating the current relevance expression.
			Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
client license	PlainGlobal	license>	Global object containing client licensing information.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
communications bit <operating system suite</operating 	IndexedGlobal	<boolean></boolean>	Returns TRUE if the communications bit of the Suite Mask (a part of the Windows OS version) is set.
mask>			Win:6.0
computer id	PlainGlobal	<integer></integer>	This is a unique integer assigned to the computer by the BES system.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
computer name	PlainGlobal	<string></string>	Returns a string corresponding to the name of the computer as it appears on the network.
			Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
connection status <integer></integer>	NumberedGlobal	<pre><connection status=""></connection></pre>	Returns the connection status based on its integer value. This Inspector is included to take advantage of new (or undocumented) additions to the status values.
			Win:5.0
connection status authenticating	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_AUTHENTICATING: The connection is waiting for authentication to occur.
authenticating			Win:5.0

Key Phrase	Form	Return Type	Description
connection status authentication failed	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_AUTHENTICATION_FAILED: Authentication has failed on this connection. Win:5.0
connection status authentication succeeded	PlainGlobal	<connection status></connection 	Returns the value NCS_AUTHENTICATION_SUCCEEDED: Authentication has succeeded on this connection. Win:5.0
connection status connected	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_CONNECTED: The connection is in a connected state. Win:5.0
connection status connecting	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_CONNECTING: The connection is in the process of connecting. Win:5.0
connection status disconnected	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_DISCONNECTED: The connection is disconnected. Win:5.0
connection status disconnecting	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_DISCONNECTING: The connection is in the process of disconnecting. Win:5.0
connection status hardware disabled	PlainGlobal	<connection status></connection 	Returns the value NCS_HARDWARE_DISABLED: The hardware for the connection is present, but is not enabled. Win:5.0
connection status hardware malfunction	PlainGlobal	<pre><connection status=""></connection></pre>	Returns the value NCS_HARDWARE_MALFUNCTION: A malfunction has occurred in the hardware for the connection. Win:5.0
connection status media disconnected	PlainGlobal	<connection status></connection 	Returns the value NCS_MEDIA_DISCONNECTED: The media, for example the network cable, is disconnected. Win:5.0

Key Phrase	Form	Return Type	Description
connection status no hardware present	PlainGlobal	<connection status></connection 	Returns the value NCS_NO_HARDWARE_PRESENT: The hardware for the connection, for example network interface card (NIC), is not present. Win:6.0
current date	PlainGlobal	<date></date>	Returns the current date in the format: • Day of week, Day Month Year. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current day_of_month	PlainGlobal	<day month="" of=""></day>	Returns the current day of the month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current day_of_week	PlainGlobal	<day of="" week=""></day>	Retruns the current day of the week, eg. Monday, Tuesday, etc. Win: 6.0, Lin: 6.0, Sol: 6.0, HPUX: 6.0, AIX: 6.0
current day_of_year	PlainGlobal	<day of="" year=""></day>	Retruns the current day of the year, in a Month Day format. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current firewall profile type	PlainGlobal	<firewall profile="" type=""></firewall>	Retrieves the type of firewall profile that is currently in effect.
current month	PlainGlobal	<month></month>	Win:5.1 Returns the current month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current month_and_year	PlainGlobal	<month and="" year=""></month>	Returns the current date in month year format, eg. January 2012. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
current site	PlainGlobal	<site></site>	Returns the current site object. See site. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
current user	PlainGlobal	<pre><current user=""></current></pre>	Returns the current user if one is logged in to the desktop. • Note: For Unix, this returns a <user> type as of BES version 6.0. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</user>
current year	PlainGlobal	<year></year>	Returns the current year. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
custom firewall scope	PlainGlobal	<firewall scope=""></firewall>	Returns the custom firewall scope, corresponding to the Microsoft enumerated type: NET_FW_SCOPE_CUSTOM. Win:5.1
custom site subscription effective date <string></string>	NamedGlobal	<time></time>	Returns the date the custom site (specified by <string>) was last subscribed or unsubscribed. It is used internally by BES to manage custom site subscriptions. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</string>
datacenter bit <operating mask="" suite="" system=""></operating>	IndexedGlobal	<boolean></boolean>	Returns TRUE if the datacenter bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
date <string></string>	NamedGlobal	<date></date>	Converts the given string into a date. The string should be of the form 'Day Month Year' and the returned date will be of the form 'Day of week, Day Month Year'.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day	PlainGlobal	<time interval></time 	Returns a time interval corresponding to 1 day. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
day_of_month <integer></integer>	NumberedGlobal	<day month="" of=""></day>	Converts the given integer to a day of month type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_month <string></string>	NamedGlobal	<day month="" of=""></day>	Converts the given string value (must be an integer from 1-31) to a day of month type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
day_of_week <string></string>	NamedGlobal	<day of="" week=""></day>	Converts the given string value to a day of week type, eg. Monday, Tuesday, etc. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
december	PlainGlobal	<month></month>	Returns December as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
december <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of December as a 'day of year' type (month day). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Form	Return Type	Description
PlainGlobal	<application></application>	Returns the application currently associated with HTML files. This is a Windows and Macintosh inspector; it will fail gracefully under other operating systems, rather than generate an error.
		Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
PlainGlobal	<dmi></dmi>	Creates the global dmi object. If no dmi information is available, creation of the object will fail.
DI : CI I I		Win:1.2, Lin:4.1
PlainGlobal 	<string></string>	Returns the DNS name of the computer.
		Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
PlainGlobal	<pre><firewall profile="" type=""></firewall></pre>	Creates a domain firewall profile type for comparison.
		Win:5.1
PlainGlobal	<local user=""></local>	Returns all of the users that are members of the domain for which the machine is a user.
		Win:4.1
NamedGlobal	<local user=""></local>	Returns the local user object corresponding to the specified name.
		Win:4.1
PlainGlobal	<drive></drive>	Returns all the drive objects defined on the machine. • Note: For Unix, this Inspector returns a <filesystem> object as of version 6.0 of BES.</filesystem>
		Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
NamedGlobal	<drive></drive>	Returns a drive object for the name provided. • Note: For Unix, this Inspector returns a <filesystem> object as of version 6.0 of BES.</filesystem>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
IndexedGlobal	<boolean></boolean>	Returns TRUE if the embedded nt bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
IndexedGlobal	<boolean></boolean>	Returns TRUE if the embedded restricted bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
	PlainGlobal PlainGlobal PlainGlobal PlainGlobal NamedGlobal PlainGlobal IndexedGlobal	PlainGlobal <application>PlainGlobal<dmi>PlainGlobal<firewall profile="" type="">PlainGlobal<local user="">NamedGlobal<local user="">PlainGlobal<drive>NamedGlobal<drive>IndexedGlobal<boolean></boolean></drive></drive></local></local></firewall></dmi></application>

Key Phrase	Form	Return Type	Description
enterprise bit <operating system suite mask></operating 	IndexedGlobal	<boolean></boolean>	Returns TRUE if the enterprise bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
environment	PlainGlobal	<environment></environment>	Returns an object corresponding to the currently defined set of environment variables. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
error <string></string>	NamedGlobal	<undefined></undefined>	Always fails; if an error message is generated, it is based on the given string. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
error event log event type	PlainGlobal	<pre><event event="" log="" type=""></event></pre>	Returns an object corresponding to an error in the event log, such as the failure of a service to start. Win:6.0
event log <string></string>	NamedGlobal	<event log=""></event>	Returns the named event log, which contains historical information that help to track down system and security problems. There are several distinct logs that you can specify, including: • Application log: records application events • Security log: recirds global or local policy audit events • System log: records OS events. Win:6.0
event log event type <integer></integer>	NumberedGlobal	<event log<br="">event type></event>	Returns an event type object corresponding to the specified number. The enumerated types include: • 1: error event • 2: warning event • 4: information event • 8: audit success event • 16: audit failure event. Win:6.0
false	PlainGlobal	<boolean></boolean>	Returns the boolean FALSE. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
february	PlainGlobal	<month></month>	Returns February as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
february <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of February as a 'day of year' type (month day). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
file <string></string>	NamedGlobal	<file></file>	Returns a filesystem object corresponding to the full pathname provided in <string>. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1</string>
file_and_print firewall service type	PlainGlobal	<firewall service="" type=""></firewall>	Returns the global service type for file and print sharing, corresponding to the Microsoft enumerated type: NET_FW_SERVICE_FILE_AND_PRINT. Win:6.0
firewall	PlainGlobal	<firewall></firewall>	Returns the global firewall object for this computer. Win:5.1
firewall profile type <integer></integer>	NumberedGlobal	<firewall profile="" type=""></firewall>	Returns the firewall profile type corresponding to the given integer: • 0: Domain • 1: Standard • 2: Current. Win:5.1
firewall scope <integer></integer>	NumberedGlobal	<firewall scope=""></firewall>	Returns the scope of addresses from which a port can listen. Win:5.1
firewall service type <integer></integer>	NumberedGlobal	<pre><firewall service="" type=""></firewall></pre>	Returns the firewall service type specified by <integer>. Win:5.1</integer>
floating point <string></string>	NamedGlobal	<floating point=""></floating>	Creates a floating point number from the provided string. Win:4.1, Mac:4.1
folder <string></string>	NamedGlobal	<folder></folder>	Returns a folder object for the name provided. See drive. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
friday	PlainGlobal	<day of="" week=""></day>	Returns Friday as a day of week object. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
full wmi <string></string>	NamedGlobal	<wmi></wmi>	Returns a wmi object which can retrieve all values, including system values. Win:3.0
ghz	PlainGlobal	<hertz></hertz>	Returns a Hertz object corresponding to 1 gigahertz. See hertz. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
greatest hz	PlainGlobal	<hertz></hertz>	Returns the largest hertz object that can be represented on this machine. See hertz.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
greatest integer	PlainGlobal	<integer></integer>	Returns the largest integer that can be represented on this machine. See integer.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
greatest time interval	PlainGlobal	<time interval=""></time>	Returns the greatest time interval representable. The value corresponds to 106751991 days, 04:00:54.775807.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
hexadecimal integer <string></string>	NamedGlobal	<integer></integer>	Creates an integer from the provided hexadecimal value.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
hexadecimal	NamedGlobal	<string></string>	Creates a string from the given hexadecimal value.
string <string></string>			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
hostname	PlainGlobal	<string></string>	Returns the standard host name, usually for the computer's network.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
hour	PlainGlobal	<time interval=""></time>	Returns a time interval corresponding to 1 hour. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
hyperthreading capable	PlainGlobal	<boolean></boolean>	Returns a boolean TRUE if the agent is able to detect that the processor is capable of running with hyperthreading enabled. Win:6.0
hyperthreading enabled	PlainGlobal	<boolean></boolean>	Returns TRUE if the machine is running with hyperthreading enabled, a method in which each physical processor on the machine presents itself as multiple logical processors to the operating system. Win:5.0
hz	PlainGlobal	<hertz></hertz>	Returns a hertz object corresponding to 1 hertz.
	i ium Giodui	TICI (Z)	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
information event log event type	PlainGlobal	<pre><event event="" log="" type=""></event></pre>	Returns an object corresponding to an information event An informational event which is generally related to a successful action. Win:6.0

Key Phrase	Form	Return Type	Description
install folder <integer></integer>	NumberedGlobal	<folder></folder>	Returns a folder object corresponding to the number provided. The placement of some system folders can be found using numbers that have been associated with those folders. See folder. Win:1.2
integer <integer></integer>	NumberedGlobal	<integer></integer>	Returns an integer. The keyword is optional. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
integer <string></string>	NamedGlobal	<integer></integer>	Returns integer for name provided. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
internet protocol <integer></integer>	NumberedGlobal	<internet protocol=""></internet>	Returns the firewall internet protocol specified by the given integer. These correspond to the Microsoft enumerated types: • NET_FW_IP_PROTOCOL_TCP • NET_FW_IP_PROTOCOL_UDP. Win:5.1
ip version <integer></integer>	NumberedGlobal	<ip version=""></ip>	Returns the the IP version for the specified integer. Win:5.1
ipv4	PlainGlobal	<ip version=""></ip>	Provides a comparison value for a firewall ip version inspector.
			Win:5.1
ipv4 address <string></string>	NamedGlobal	<ipv4 address=""></ipv4>	Returns an ip address for the string provided. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
ipv6	PlainGlobal	<ip version=""></ip>	Provides a comparison value for a firewall ip version inspector. Win:5.1
january	PlainGlobal	<month></month>	Returns January as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
january <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of January as a 'day of year' type (month day). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
july	PlainGlobal	<month></month>	Returns July as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
july <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of July as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
june	PlainGlobal	<month></month>	Returns June as an object of type month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
june <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of June as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
khz	PlainGlobal	<hertz></hertz>	Returns a hertz object corresponding to 1 kilohertz.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
least hz	PlainGlobal	<hertz></hertz>	Returns the least hertz value that can be represented on this machine.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
least integer	PlainGlobal	<integer></integer>	Returns the least integer value that can be represented on this machine.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
least time interval	PlainGlobal	<time interval></time 	Returns the least time interval that can be represented on this machine. The value corresponds to -106751991 days, 04:00:54.775808.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
local administrator	PlainGlobal	<boolean></boolean>	Returns the boolean TRUE if the user belongs to the local administrator group. Also returns TRUE for Win9x and WinME.
			Win:1.2
local group	PlainGlobal	<local group=""></local>	Returns local groups defined on the local computer using the windows NetLocalGroupEnum API. Several local groups are defined simply by a default operating system install, and have names such as Administrators, Backup Operators, Guests, Network Configuration Operators, Power users, Users, etc. Some software applications also define local groups in order to help manage protections.
			Win:6.0
local group <string></string>	NamedGlobal	<local group=""></local>	Returns a local group corresponding to the given name, such as Adminstrator, Guests, etc.
			Win:6.0
local mssql database	PlainGlobal	<local mssql<br="">database></local>	Returns local MSSQL database objects. Win:1.2

Key Phrase	Form	Return Type	Description
local mssql database	NamedGlobal	local mssql database>	Returns the local Microsoft SQL (MSSQL) database object identified by the name provided.
<string></string>			Win:1.2
local subnet firewall scope	PlainGlobal	<firewall scope=""></firewall>	Returns the local subnet firewall scope, corresponding to the Microsoft enumerated type: NET_FW_SCOPE_LOCAL_SUBNET.
			Win:5.1
local time <string></string>	NamedGlobal	<time></time>	Returns a time object for the name provided. See time.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
local time zone	PlainGlobal	<time zone=""></time>	Returns a time zone object corresponding to the local time zone.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
local user	PlainGlobal	<local user=""></local>	Returns all local users of the machine.
			Win:1.2
local user	NamedGlobal	<local user=""></local>	Returns the named local user.
<string></string>			Win:1.2
logical processor count	PlainGlobal	<integer></integer>	Returns the number of logical processors available per physical processor. This can be interpreted as the number of hyperthreads that could be enabled on the machine. On a machine with 2 physical processors, each with 2 possible hyperthreads per processor, the 'physical processor count' and the 'logical processor count' would both return 2, while the 'number of processors' would return 4, since there are a total of 4 logical processors available for work. With hyperthreading turned off, the 'number of processors', 'logical processor count' and 'physical processor count' would all be 2. Disabling one of those processors will then give 'number of processors'=1, 'logical processor count'=2, and 'physical processor count'=1. If the number of processors / physical processor count!= logical processor count, you can turn on hyperthreading. Win:6.0
main gather service	PlainGlobal	<service></service>	Returns a service object for the main gathering service, typically located on the main server. Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1

Key Phrase	Form	Return Type	Description
main processor	PlainGlobal	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Returns the processor object corresponding to the main processor.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
march	PlainGlobal	<month></month>	Returns March as an object of type month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
march <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of March as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
may	PlainGlobal	<month></month>	Returns May as an object of type month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
may <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of May as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
media type <integer></integer>	NumberedGlobal	<media type=""></media>	Returns the media type based on its integer value. This Inspector is included to take advantage of new (or undocumented) additions to the media types.
			Win:5.0
media type bridge	PlainGlobal	<media type=""></media>	Returns the value NCM_BRIDGE: Bridged connection.
			Win:5.0
media type direct	PlainGlobal	<media type=""></media>	Returns the value NCM_DIRECT: Direct serial connection through a serial port.
			Win:5.0
media type isdn	PlainGlobal	<media type=""></media>	Returns the value NCM_ISDN: Connection is through an integrated services digital network (ISDN) line.
			Win:5.0
media type lan	PlainGlobal	<media type=""></media>	Returns the value NCM_LAN: Connection is to a local area network (LAN).
			Win:5.0
media type phone	PlainGlobal	<media type=""></media>	Returns the value NCM_PHONE: Dial-up connection over a conventional phone line. Win:5.0

Key Phrase	Form	Return Type	Description
media type pppoe	PlainGlobal	<media type=""></media>	Returns the value NCM_PPPOE: Point-to-Point protocol (PPP) over Ethernet.
media type shared access host lan	PlainGlobal	<media type=""></media>	Returns the value NCM_SHAREDACCESSHOST_LAN: Shared connection to a LAN. Win:5.0
media type shared access host ras	PlainGlobal	<media type=""></media>	Returns the value NCM_SHAREDACCESSHOST_RAS: Shared connection to a remote or wide area network (WAN). win:5.0
media type tunnel	PlainGlobal	<media type=""></media>	Returns the value NCM_TUNNEL: Virtual private network (VPN) connection. Win:5.0
metabase	PlainGlobal	<metabase></metabase>	Returns the IIS metabase object. Win:4.1
mhz	PlainGlobal	<hertz></hertz>	Returns a hertz object corresponding to 1 megahertz. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
microsecond	PlainGlobal	<time interval></time 	Returns a time interval corresponding to .000001 seconds. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
midnight	PlainGlobal	<time day="" of=""></time>	Returns 00:00:00 as a time of day object. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
millisecond	PlainGlobal	<time interval></time 	Returns a time interval corresponding to .001 seconds. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
minute	PlainGlobal	<time interval=""></time>	Returns a time interval corresponding to 1 minute. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
module <string></string>	NamedGlobal	<module></module>	For BigFix internal use only. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
monday	PlainGlobal	<day of="" week=""></day>	Returns the day of week object for Monday. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
month	PlainGlobal	<number months="" of=""></number>	Returns the specified number of months.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month <integer></integer>	NumberedGlobal	<month></month>	Returns the month type corresponding to the given <integer>.</integer>
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
month <string></string>	NamedGlobal	<month></month>	Returns a month type corresponding to the given <string>.</string>
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
native registry	PlainGlobal	<registry></registry>	On 32 bit versions of windows, this returns the same as registry32 and registry. On 64 bit versions of windows, this returns the same as registry64.
			Win:6.0
network	PlainGlobal	<network></network>	Returns an object containing properties of the network.
			Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
network share	PlainGlobal	<network share=""></network>	Creates a network shared object.
			Win:4.1
network share	NamedGlobal	<network< td=""><td>Creates a named network shared object.</td></network<>	Creates a named network shared object.
<string></string>		share>	Win:4.1
none firewall service type	PlainGlobal	<firewall service="" type=""></firewall>	Returns the no firewall service type, corresponding to the Microsoft enumerated type: NET_FW_SERVICE_NONE.
			Win:6.0
noon	PlainGlobal	<time day="" of=""></time>	Returns 12:00:00 as a time of day object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
november	PlainGlobal	<month></month>	Returns November as an object of type month.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
november <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of November as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
now	PlainGlobal	<time></time>	Returns the current time as a time object.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
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Key Phrase	Form	Return Type	Description
nt domain controller product type	PlainGlobal	<pre><operating product="" system="" type=""></operating></pre>	Returns an object corresponding to OS product type of nt domain controller. Win:6.0
nt server product type	PlainGlobal	<pre><operating product="" system="" type=""></operating></pre>	Returns an object corresponding to OS product type of nt server. Win:6.0
nt workstation product type	PlainGlobal	<pre><operating product="" system="" type=""></operating></pre>	Returns an object corresponding to OS product type of nt workstation. Win:6.0
october	PlainGlobal	<month></month>	Returns October as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
october <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of October as a 'day of year' type (month day). Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
oem code page	PlainGlobal	<integer></integer>	Returns an integer value of the Windows API GetOEMCP.
operating system	PlainGlobal	<pre><operating system=""></operating></pre>	Returns the operating system object. See operating system. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
operating system product type <integer></integer>	NumberedGlobal	<pre><operating product="" system="" type=""></operating></pre>	Returns an object corresponding to the numbered OS product type. Win:6.0
parameter <string></string>	NamedGlobal	<string></string>	This Inspector is a synonym for the parameter <string> of <action>. It looks up the value of the action parameter specified by <string>. This is used in conjunction with the parameter set command. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</string></action></string>
pending login	PlainGlobal	<boolean></boolean>	Installers may leave values in the registry that the operating system will execute when the next user logs in. Pending login can detect these registry entries.
pending restart	PlainGlobal	<boolean></boolean>	Returns TRUE if the operating system indicates that a restart needs to occur.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

Key Phrase	Form	Return Type	Description
pending restart <string></string>	NamedGlobal	<boolean></boolean>	Immediately after issuing a command like 'Action requires restart "PatchGroupX", the expression 'Pending restart "PatchGroupX" will be true until the next restart.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
personal bit <operating system suite mask></operating 	IndexedGlobal	<boolean></boolean>	Returns TRUE if the personal bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
physical processor count	PlainGlobal	<integer></integer>	Returns the number of physical processors on the machine. Note that 'number of processors' returns the number of logical processors. To determine the number of logical processors per physical processor, use 'number of processors / physical processor count'.
	DI : CI I I		Win:5.0
processor	PlainGlobal	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Returns all the processor objects defined on the machine. See processor.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
processor <integer></integer>	NumberedGlobal	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Returns a processor object for the numbered processor. Processors are numbered from 1.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
property <string></string>	NamedGlobal	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Typically used in the plural, returns the "line" Inspector properties.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
property returning	IndexedGlobal	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Produces a list of the Inspector properties that return the specified <type>.</type>
<type></type>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
ram	PlainGlobal	<ram></ram>	Returns a ram object for inspecting the properties of Random Access Memory installed on the machine. See ram.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
random access	PlainGlobal	<ram></ram>	Same as above.
memory			Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
recent application	PlainGlobal	<application></application>	Returns all the application objects that have recently been executing on the machine. See application.
			Win:1.2, Lin:6.0

Key Phrase	Form	Return Type	Description
recent application <string></string>	NamedGlobal	<application></application>	Returns an application for the name provided it has recently executed. The name is assumed to be the last part of an executable file name. Win:1.2, Lin:6.0
regapp	PlainGlobal	<application></application>	Returns all the application objects defined under the 'App Paths' key of the registry. Note: This Inspector returns a <filesystem> object on the Macintosh. Win:1.2</filesystem>
regapp <string></string>	NamedGlobal	<application></application>	Returns an application object for the name provided. On a Macintosh, returns a file that has been registered with Launch Services. See application and regapp. Win:1.2
regex <string></string>	NamedGlobal	<regular expression></regular 	Creates a regex object from the given string. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
registry	PlainGlobal	<registry></registry>	Returns a registry object. Win:1.2
regular expression <string></string>	NamedGlobal	<regular expression></regular 	Same as regex <string>. Win:6.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1</string>
relay service	PlainGlobal	<service></service>	Returns a service object for the relay component of BES. Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
remote desktop firewall service type	PlainGlobal	<firewall service="" type=""></firewall>	Returns the remote desktop firewall service type, corresponding to the Microsoft enumerated type: NET_FW_SERVICE_REMOTE_DESKTOP. Win:5.1
rope <string></string>	NamedGlobal	<rope></rope>	Creates a rope object from the given string. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
running application	PlainGlobal	<application></application>	Returns all the application objects that are currently executing on the machine. See application. Win:1.2, Lin:6.0

Key Phrase	Form	Return Type	Description
running application <string></string>	NamedGlobal	<application></application>	Returns an application for the name provided it is currently executing. The name is assumed to be the last part of an executable file name. Win:1.2, Lin:6.0
running service	PlainGlobal	<service></service>	Returns all the running service objects.
running service	1 iainGiobai	SCI VICC>	Win:12
running service <string></string>	NamedGlobal	<service></service>	Returns the running service object matching the name provided.
			Win:1.2
saturday	PlainGlobal	<pre><day of="" week=""></day></pre>	Returns Saturday as a day of week object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
second	PlainGlobal	<time< td=""><td>Returns a time interval corresponding to 1 second.</td></time<>	Returns a time interval corresponding to 1 second.
		interval>	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
security event log	PlainGlobal	<event log=""></event>	Returns a security event log, which records global or local group policy events.
			Win:6.0
selected server	PlainGlobal	<selected server></selected 	The BES Server or BES Relay to which the agent reports. Returned as the "selected server" type.
. 1	DI : CI I I		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
september	PlainGlobal	<month></month>	Returns September as an object of type month. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
september <integer></integer>	NumberedGlobal	<day of="" year=""></day>	Returns the nth day of September as a 'day of year' type (month day).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
service	PlainGlobal	<service></service>	Returns all the service objects.
			Win:1.2
service <string></string>	NamedGlobal	<service></service>	Returns the service object matching the name provided regardless of its running state.
			Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
single user ts bit <operating system suite mask></operating 	IndexedGlobal	<boolean></boolean>	Returns TRUE if the single user ts bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0

Form	Return Type	Description
PlainGlobal	<site></site>	Returns all the site objects that are currently loaded into memory. See site.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
NamedGlobal	<site></site>	Returns a site object for the name provided. The name is the URL of the site location. See site.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
IndexedGlobal	<boolean></boolean>	Returns TRUE if the small business bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
IndexedGlobal	<boolean></boolean>	Returns TRUE if the small business restricted bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
PlainGlobal	<firewall profile="" type=""></firewall>	Returns the Standard firewall profile type. This is a global property. Win:5.1
NamedGlobal	<string></string>	Returns a string for the name provided. The keyword string is optional. For example, string "hi" = "hi".
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
PlainGlobal	<day of="" week=""></day>	Returns Sunday as a day of week object.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
PlainGlobal	<event log=""></event>	Returns a system event log, which records OS or component events, such as the failure of a bootup service.
		Win:6.0
NamedGlobal	<file></file>	Returns a file object corresponding to the relative pathname provided.
		Win:1.2
PlainGlobal	<file></file>	Returns a list of file objects corresponding to all the device files loaded as a result of a device= lines of the system.ini file. See file. Win:1.2
	PlainGlobal IndexedGlobal IndexedGlobal PlainGlobal PlainGlobal PlainGlobal PlainGlobal NamedGlobal	PlainGlobal <site>NamedGlobal<site>IndexedGlobal<boolean>IndexedGlobal<firewall profile="" type="">NamedGlobal<string>PlainGlobal<day of="" week="">PlainGlobal<event log="">NamedGlobal<file></file></event></day></string></firewall></boolean></site></site>

Key Phrase	Form	Return Type	Description
system ini device file <string></string>	NamedGlobal	<file></file>	Returns a file object corresponding to a device file loaded as a result of a device= line of the system.ini file. Win:1.2
system language	PlainGlobal	<string></string>	Returns the language of the system as a string. It is identified using the GetSystemDefaultLangID() system call. See the language keyword of the application object for a list of possible language value. Win:1.2, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
system locale	PlainGlobal	<language></language>	Determines which bitmap fonts, and OEM, ANSI, and MAC code pages are defaults for the system. This only affects applications that are not fully Unicode. Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
system ui language	PlainGlobal	<language></language>	Determines the default language of menus and dialogs, messages and help files. Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
system wow64 folder	PlainGlobal	<folder></folder>	Returns a filesystem object corresponding to a "Windows On Windows 64" system folder, which does not exist on 32-bit Windows. You can find out more about the WOW64 system folder at the Microsoft site: http://msdn.microsoft.com/library/default.asp?url=/library/en-us/sysinfo/base/getsystemwow64directory.asp. Win:6.0
system x32 folder	PlainGlobal	<folder></folder>	Returns a filesystem object corresponding to a 32-bit system folder. On a 32-bit machine, this is equivalent to the normal system folder. Win:6.0

Key Phrase	Form	Return Type	Description
system x64 folder	PlainGlobal	<folder></folder>	Returns a filesystem object corresponding to a 64-bit system folder. This is the same as the system folder, but with file system redirection disabled. For more information about file redirection, see the Microsoft site http://msdn.microsoft.com/library/default.asp?url=/library/en-us/win64/win64/file_system_redirector.asp.
tcp	PlainGlobal	<internet protocol=""></internet>	Returns an internet protocol corresponding to the Microsoft enumerated type: NET_FW_IP_PROTOCOL_TCP. Win:5.1
terminal bit <operating system suite mask></operating 	IndexedGlobal	<boolean></boolean>	Returns TRUE if the terminal bit of the Suite Mask (a part of the Windows OS version) is set. Win:6.0
thursday	PlainGlobal	<day of="" week=""></day>	Returns Thursday as a day of week object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
time <string></string>	NamedGlobal	<time></time>	Returns a time object for the name provided. See time.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
time interval <string></string>	NamedGlobal	<time interval=""></time>	Creates a time interval from the string. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
time zone <string></string>	NamedGlobal	<time zone=""></time>	Returns a time zone object for the name provided. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
time_of_day <string></string>	NamedGlobal	<time day="" of=""></time>	Creates a time of day object out of the given string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
total processor core count	PlainGlobal	<integer></integer>	Returns an integer corresponding to the total number of processor cores. Win:6.0
true	PlainGlobal	<boolean></boolean>	Returns the boolean TRUE.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
tuesday	PlainGlobal	<day of="" week=""></day>	Returns Tuesday as a day of week object.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
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Key Phrase	Form	Return Type	Description
udp	PlainGlobal	<internet protocol=""></internet>	Returns an internet protocol corresponding to the Microsoft enumerated type: NET_FW_IP_PROTOCOL_UDP. Win:5.1
unary operator <string></string>	NamedGlobal	<unary operator=""></unary>	Typically used in the plural, this inspector returns a list of objects that use the specified operator. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
unary operator returning <type></type>	IndexedGlobal	<unary operator=""></unary>	Returns a list of the unary operator inspectors (such as negative) that return the specified type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
universal time <string></string>	NamedGlobal	<time></time>	Returns a time object for the name provided. See time. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
universal time zone	PlainGlobal	<time zone=""></time>	Returns a time zone object corresponding to the universal time zone.
upnp firewall service type	PlainGlobal	<firewall service="" type=""></firewall>	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1 Returns the UPnP (Universal Plug and Play) firewall service type, corresponding to the Microsoft enumerated type: NET_FW_SERVICE_UPNP. • Note: UPnP is not the same as PnP. UPnP is used for network connectivity via TCP/IP to various devices (scanners, printers, etc.). Win:5.1
user language	PlainGlobal	<string></string>	Returns the language of the system as a string. It is identified by using the GetUserDefaultLangId() system call. See the language keyword of the application object for a list of possible language value. Win:1.2
user locale	PlainGlobal	<language></language>	Determines which settings are used for formatting dates, times, currency, and numbers as a default for each user. Also determines the sort order for sorting text. Win:4.1

Key Phrase	Form	Return Type	Description
user ui language	PlainGlobal	<language></language>	Non-MUI: Same as system UI Language. • MUI: Determines the language of menus and dialogs, messages, and help files. Win:4.1
version <string></string>	NamedGlobal	<version></version>	Short hand for 'file version'. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
warning event log event type	PlainGlobal	<event log<br="">event type></event>	Returns an object corresponding to a warning in the event log. Warnings can be used to prevent future system problems. Win:6.0
wednesday	PlainGlobal	<day of="" week=""></day>	Returns Wednesday as a day of week object. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
week	PlainGlobal	<time interval=""></time>	Returns a time interval corresponding to 1 week. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
windows display time <string></string>	NamedGlobal	<time></time>	Returns a string that may match the time shown in the Windows file system. Win:1.2
windows file <string></string>	NamedGlobal	<file></file>	Returns a file object corresponding to the relative pathname (within the Windows folder) provided. See file.
windows folder	PlainGlobal	<folder></folder>	Returns a folder object of the Windows folder This is operating system dependent. Under Win98 this is usually c:\Windows. Win:1.2
wmi	PlainGlobal	<wmi></wmi>	Returns the wmi object corresponding to the "root\cimv2" namespace. Win:3.0
wmi <string></string>	NamedGlobal	<wmi></wmi>	Returns the wmi object corresponding to the namespace string provided. Win:3.0
x32 application <string></string>	NamedGlobal	<application></application>	Returns an object corresponding to the 32-bit application specified by <string>. Win:6.0</string>

Key Phrase	Form	Return Type	Description
x32 file <string></string>	NamedGlobal	<file></file>	Returns an object corresponding to a 32 bit file with name specified by <string>. Win:6.0</string>
x32 folder <string></string>	NamedGlobal	<folder></folder>	Returns a filesystem object corresponding to a 32-bit folder. Win:6.0
x32 registry	PlainGlobal	<registry></registry>	Returns a 32-bit registry object. This Inspector is equivalent to the ordinary registry Inspector. Win:6.0
x64 application <string></string>	NamedGlobal	<application></application>	Returns an object corresponding to the 64-bit application specified by <string>. On a 32-bit computer, this is equivalent to a normal application Inspector, but on a 64-bit machine, this Inspector returns an object that has filesystem redirection disabled. Win:6.0</string>
x64 file <string></string>	NamedGlobal	<file></file>	Returns an object corresponding to a 64 bit file with pathname specified by <string>. On a 32-bit computer, this is equivalent to a normal file Inspector, but on a 64-bit machine, this Inspector returns an object that has filesystem redirection disabled. Win:6.0</string>
x64 folder <string></string>	NamedGlobal	<folder></folder>	Returns a filesystem object corresponding to a 64-bit folder with the given pathname. On a 32-bit computer, this is equivalent to a normal folder Inspector, but on a 64-bit machine, this Inspector returns an object that has filesystem redirection disabled. This action is transitive: any resulting filesystem objects will also have redirection disabled. For example, "pathnames of files of x64 folder <pre>path>"</pre> will disable redirection when locating the folder, iterating over the files in the folder and calculating pathnames. Win:6.0

Key Phrase	Form	Return Type	Description
x64 registry	PlainGlobal	<registry></registry>	Returns a 64-bit registry object. This Inspector is for 64-bit computers only; there is no 64-bit registry on a 32-bit computer. • Note that "x64 registry" and "native registry" on 64-bit machines do NOT provide the same view as the 64-bit version of regedit (the "physical" view). If you try to access the physical location of the 32-bit view keys using a 64-bit view, it will be mapped back to the equivalent location in the 64-bit view. Win:6.0
year	PlainGlobal	<number months="" of=""></number>	Returns the specified number of years as a <number months="" of=""> type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</number>
year <integer></integer>	NumberedGlobal	<year></year>	Creates a year object from the specified integer. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
year <string></string>	NamedGlobal	<year></year>	Creates a year object from the specified string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
zoned time_of_day <string></string>	NamedGlobal	<time day<br="" of="">with time zone></time>	Returns a 'time of day with time zone' object from the specified string. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- ansi code page = 1252
- ▶ Returns TRUE on English Windows systems.
- description of record (oldest record number of it) of application event log
- Returns a description of the oldest record in the application event log.
- binary operators "&"
- Returns a list of all the concatentation inspectors available.
- binary operators returning (type "integer")
- ▶ Returns a list of binary operators that return an integer, including +, -, *, /, %, and other combinations.
- bit 0 of 5
- Returns TRUE.

- bit set "101" as integer
- Returns 5.
- casts "integer"
- Returns a list of the objects that can be cast as integers, eg., <string> as integer, <integer> as integer, etc.
- device names of connections whose (status of it = connection status connected) of network
- Returns the names of the connected network devices.
- if FALSE then 1 else error "my error message"
- ▶ Returns the string: User-defined error: my error message.
- exists event log "Application"
- ▶ Returns TRUE if the application log exists.
- current firewall profile type = firewall profile type 3
- Returns TRUE.
- hexadecimal integer "A0"
- ▶ Returns 160.
- number of processors / physical processor count != logical processor count
- Returns TRUE if hyperthreading has not yet been turned on.
- paths of network shares
- Returns a list of the paths currently being shared over the network.

Registry Objects

These are the keywords for dealing with the Windows registry. Particular attention is paid to registered applications and their associated file extensions.

Registry

These are the Inspectors that expose the Windows registry.

Key Phrase	Form	Description
native registry	PlainGlobal	On 32 bit versions of windows, this returns the same as registry32 and registry. On 64 bit versions of windows, this returns the same as registry64. Win:6.0
registry	PlainGlobal	Creates an object for accessing the registry. Win:1.2
x32 registry	PlainGlobal	Returns a 32-bit registry object. This Inspector is equivalent to the ordinary registry Inspector. Win:6.0
x64 registry	PlainGlobal	Returns a 64-bit registry object. This Inspector is for 64-bit computers only; there is no 64-bit registry on a 32-bit computer. • Note that "x64 registry" and "native registry" on 64-bit machines do NOT provide the same view as the 64-bit version of regedit (the "physical" view). If you try to access the physical location of the 32-bit view keys using a 64-bit view, it will be mapped back to the equivalent location in the 64-bit view.

Properties

Key Phrase	Form	Return Type	Description
application <string> of <registry></registry></string>	Named	<application></application>	Returns an application object matching name provided. See application.
application folder <string> of <registry></registry></string>	Named	<folder></folder>	Returns the folder containing the matching name provided. See application. The application does not have to exist. The folder has to exist. Win:1.2
application of	Plain	<application></application>	Iterates through the properly installed applications. See application. Win:1.2
device key <string> of <registry></registry></string>	Named	<registry key></registry 	Iterates through all the keys known to the configuration manager for active devices whose "DeviceDesc" matches the name provided. See registry key.
device key of <registry></registry>	Plain	<registry key></registry 	Iterates through all the keys known to the configuration manager for active devices. See registry key. Win:1.2
file extension <string> of <registry></registry></string>	Named	<registry key></registry 	Returns a key associated with the named extension. See registry key. Win:1.2
file type <string> of <registry></registry></string>	Named	<registry key></registry 	Returns a key associated the named file type. See registry key. Win:1.2
key <string> of <registry></registry></string>	Named	<registry key></registry 	Returns a key associated with the name provided. See registry key. Win:1.2

- name of application of key ".txt" of key "HKEY_CLASSES_ROOT" of the registry = "NOTEPAD.EXE"
- True when text files are to be opened with notepad.exe on the current machine.

- value of file extension "bmp" of registry = "Paint.Picture"
- Returns TRUE if there is only one value of the key "HKEY_CLASSES_ROOT\.bmp" and it contains the string "Paint.Picture".
- file extension ".txt" of the registry
- Returns a key corresponding to the application designated to process files with this extension. The dot is optional in the name provided. Looks for the key under HKEY_CLASSES_ROOT.
- file type "txtfile" of the registry
- Returns a key whose existence indicates that there is an application designated to process text files. Looks for the key under HKEY_CLASSES_ROOT.
- key "HKEY_CLASSES_ROOT\txtfile" of the registry
- Returns a key whose existence indicates that there is an application designated to process text files. Looks for the key under HKEY_CLASSES_ROOT.
- key "txtfile" of key "HKEY_CLASSES_ROOT" of the registry
- Returns a key whose existence indicates that there is an application designated to process text files. Looks for the key under HKEY_CLASSES_ROOT.

Registry Key

The registry key objects represent Windows registry keys whose existence and properties can be inspected. Keys can be identified by name. There are several Inspectors that return keys from parts of the registry that store file associations and active device drivers.

Key Phrase	Form	Description
device key <string> of <registry></registry></string>	Named	Iterates through all the keys known to the configuration manager for active devices whose "DeviceDesc" matches the name provided. Win:12
		WIII.1.2
device key of <registry></registry>	Plain	Iterates through all the keys known to the configuration manager for active devices. Win:1.2
driver key of <active device=""></active>	Plain	The key identified by adding the value of 'driver key value name of active device' to HKLM\System\CurrentControlSet\Control\Class\.

Key Phrase	Form	Description
driver key of <registry key=""></registry>	Plain	Uses the value of "Driver" of the key to indirectly return a key corresponding to HKEY_LOCAL_MACHINE\System\CurrentControlSet\ Services\Class\ <value driver="" of="">.</value>
file extension <string> of <registry></registry></string>	Named	Creates a key object provided the registry indicates support for the named file extension. Win:1.2
file type <string> of <registry></registry></string>	Named	Creates a key object provided the registry indicates support for the named file type. Win:1.2
key <string> of <registry key=""></registry></string>	Named	Creates an object for the named sub-key of the key. Win:1.2
key <string> of <registry></registry></string>	Named	Creates an object for the named key. The name may be a full path to a key of the form "HKEY_CLASSES_ROOT\Fixlet.Pool\". Win:1.2
key of <registry key=""></registry>	Plain	Iterates through the sub-keys of a key. Win:1.2

Key Phrase	Form	Return Type	Description
application <string> of <registry key=""></registry></string>	Named	<application></application>	Returns the application associated with the named command. Normally used with a sub-key of key HKEY_CLASSES_ROOT whose name is a file type. Win:1.2
application folder <string> of <registry key=""></registry></string>	Named	<folder></folder>	Returns the parent folder associated with the named application. Normally used with a sub-key of key HKEY_CLASSES_ROOT whose name is a file type. Win:1.2
application folder of <registry key=""></registry>	Plain	<folder></folder>	Returns the parent folder associated with the named application. Normally used with a sub-key of key HKEY_CLASSES_ROOT whose name is a file type. Win:1.2
application of	Plain	<application></application>	Returns the application associated with the "open"

Key Phrase	Form	Return Type	Description
<registry key=""></registry>			command. Normally used with a sub-key of key HKEY_CLASSES_ROOT whose name is a file extension.
			Win:1.2
default value of	Plain	<registry key="" value=""></registry>	Returns the unnamed value associated with a key as a string. It does not necessarily exist.
			Win:1.2
driver key of <registry key=""></registry>	Plain	<registry key></registry 	Normally used as a property of a device key. Looks up the value of "Driver" of the key provided to indirectly return another key corresponding to HKEY_LOCAL_MACHINE\System\CurrentControlSet\ Services\Class\ <value driver="" of="">.</value>
			Win:1.2
key <string> of</string>	Named	<registry< td=""><td>Returns a key for the named sub-key.</td></registry<>	Returns a key for the named sub-key.
<registry key=""></registry>	ry key> key>	key>	Win:1.2
key of < registry	Plain	<registry< td=""><td>Iterates through the sub-keys of the key.</td></registry<>	Iterates through the sub-keys of the key.
key> key>	key>	Win:1.2	
name of <registry< td=""><td>Plain</td><td><string></string></td><td>Returns the name of the key as a string.</td></registry<>	Plain	<string></string>	Returns the name of the key as a string.
key>			Win:1.2
security descriptor of	Plain	<security descriptor=""></security>	Specifies the security descriptor associated with the specified registry key.
<registry key=""></registry>			Win:4.1
value <string> of <registry key=""></registry></string>	Named	<registry key="" value=""></registry>	Returns the named value stored under the key. See registry key value.
			Win:1.2
value of <registry< td=""><td>Plain</td><td><registry key<="" td=""><td>Iterates through values stored under a key.</td></registry></td></registry<>	Plain	<registry key<="" td=""><td>Iterates through values stored under a key.</td></registry>	Iterates through values stored under a key.
key>		value>	Win:1.2

The terminology of keys, values, default values and values that have names and data is chosen to match the convention's used by the Windows registry editor as well as the API's provided by the Windows operating system for accessing this information.

Top branches of the Windows registry include:

HKEY CLASSES ROOT

HKEY LOCAL MACHINE

HKEY CURRENT USER

HKEY USERS

HKEY CURRENT CONFIG

HKEY DYN DATA

HKEY PERFORMANCE DATA (NT)

The trailing slashes on registry key names are optional.

File extensions, File types, and associated applications:

The following table represents a small part of the registry. It illustrates the relationship between the notions of file extension, file type, and the shell commands associated with the inspector keywords

Description	HKEY_CLASSES_ROOT\	Default Value
File extension key	.txt	default value = txtfile
File type key	txtfile\shell\	
Named command	txtfile\shell\open\command	default value = c:\windows\NOTEPAD.EXE %1
Named command	txtfile\shell\print\command	default value = c:\windows\NOTEPAD.EXE/p %1

Device Keys of the registry:

The Configuration Manager of the Windows 9x operating system maintains a list of active devices under the HKEY_DYN_DATA\Config Manager\Enum key of the registry. The items in the list contain values named "HardwareKey" which are the names of keys under

HKEY_LOCAL_MACHINE\Enum. The value "DeviceDesc" contains a description of the device. The device key inspectors allow you to determine if a particular piece of hardware matching the Device Description is currently active.

Device key "Hardware ABC from Company XYZ" will only return a key if there is an entry under HKEY_DYN_DATA\Config Manager\Enum that points to it.

- file extension ".txt" of the registry
- Returns a key corresponding to the application that opens files with this extension. The dot is optional in the name provided.

- name of application of file extension "html" of the registry =
 "iexplore.exe"
- Verifies that the name of the application assigned to process html documents is Internet Explorer.
- file type "txtfile" of the registry
- Returns a key whose existence may indicate that there is an application designated to process files of this type. Looks for the key under HKEY_CLASSES_ROOT.
- key "HKEY_CLASSES_ROOT\txtfile" of the registry
- Returns a key whose existence indicates that there is an application designated to process text files.
- application "print" of key "HKEY_CLASSES_ROOT\.txt" of registry
- ▶ Returns the application designated to print the files with ".txt" extensions.
- application "bigfix.exe" of the registry as string
- Results in a string of the form "BigFix.exe" "1.0.32.0" "BigFix Client Application" "1.0.32.0" "BigFix Inc.".
- name of application of key ".txt" of key "HKEY_CLASSES_ROOT" of the registry = "NOTEPAD.EXE"
- True when text files are to be opened with notepad.exe on the current machine.
- default value of key ".txt" of key "HKEY_CLASSES_ROOT" of the registry = "txtfile"
- True when the file extension is of type txtfile.
- exists default value of key "AppEvents\EventLabels\AppGPFault" of key "HKEY_CURRENT_USER" of registry
- ▶ Returns TRUE if the key exists and has a default value.
- names of keys of key "HKEY_CLASSES_ROOT\txtfile\shell" of the registry
- Iterates through all the sub-keys of the key provided. In this case, returning all the shell commands available to process the given file type.
- type of value "ProfileFlags" of key "HKEY_CURRENT_CONFIG" of registry = "REG_BINARY"
- Returns TRUE when a value named ProfileFlags under the key "HKEY_CURRENT_CONFIG" exists and contains binary data.
- size of value whose (name of it = "ProfileFlags") of key
 "HKEY_CURRENT_CONFIG" of registry = 4
- Returns TRUE when a value named ProfileFlags exists as a child of the key "HKEY_CURRENT_CONFIG" and the size of it is 4.

- value "AutoRewind" of key "HKEY_CURRENT_USER\Software\Microsoft
 \ActiveMovie\Control\Media Player" of registry = 1
- ▶ Returns TRUE if the Media Player is set to AutoRewind.

Registry Key Value

This Inspector is used to access values stored within a registry key. All values have sizes and types. All of the values of a registry key have names except one, and it is called the 'default value'. The type of the data stored in the value determines what casting operations are allowed. We have implemented several casting Inspectors that you can use to extract values from the registry.

Creation Methods

Key Phrase	Form	Description
default value of <registry key=""></registry>	Plain	Every key may have a default or unnamed value. This inspector returns the default value of the key. This value has the same properties as any other registry key value except that it does not have a name property. Win:1.2
value <string> of <registry key=""></registry></string>	Named	Creates an object with the value of the key. The name property of the value will match the name provided. Win:1.2
value of <registry key=""></registry>	Plain	Creates an object with all the values of a key.
		Win:1.2

Key Phrase	Form	Return Type	Description
<registry key="" value=""> as application</registry>	Cast	<application></application>	If the data stored in the value is a string and it is the full pathname of an application that exists on disk, the application object is returned. Win:1.2
<registry key="" value=""> as file</registry>	Cast	<file></file>	If the data stored in the value is a string and it is the full pathname of a file that exists on disk, the file object is returned. Win:1.2
<registry key="" value=""> as folder</registry>	Cast	<folder></folder>	If the data stored in the value is a string and it is the full pathname of a folder that exists on disk, the folder object is returned. Win:1.2

Key Phrase	Form	Return Type	Description
<registry key="" value=""> as integer</registry>	Cast	<integer></integer>	Returns the value stored in the registry entry provided it can be fully represented as an integer.
			Win:1.2
<registry key="" value=""> as string</registry>	Cast	<string></string>	Returns a string if the data of the value is of type REG_SZ.
			Win:1.2
<registry key="" value=""> as system file</registry>	Cast	<file></file>	If the data stored in the value is a string and it is a relative pathname from the system folder of a file that exists on disk, the corresponding file object is returned.
			Win:1.2
<registry key="" value=""> as time</registry>	Cast	<time></time>	If the data stored in the value is a string in MIME compliant date format, this property will return a time object. If the data stored is a binary value and is 16 or more bytes in length, its first 16 bytes are interpreted as a SYSTEMTIME and the corresponding time object is returned. See time. Win:1.2
name of <registry key="" value=""></registry>	Plain	<string></string>	Returns the name of the value as a string. (see escape of <string> for more information). Win:1.2</string>
size of <registry key="" value=""></registry>	Plain	<integer></integer>	Returns the size of the data as an integer. Win:1.2
type of <registry key="" value=""></registry>	Plain	<registry key="" type="" value=""></registry>	Returns the type of the data of the value. See type of value of key or registry.
			Win:1.2

Operators

Key phrase	Return Type	Description
<registry key="" value=""> {cmp} <integer></integer></registry>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2

Key phrase	Return Type	Description
<registry key="" value=""> {cmp} <registry key="" value=""></registry></registry>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2
<registry key="" value=""> {cmp} <string></string></registry>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2

Eleven literal types are currently recognized. Future types may be handled as numeric types. The possible numeric values of each type and their string literal values include:

0	REG_NONE
1	REG_SZ
2	REG_EXPAND_SZ
3	REG_BINARY
4	REG_DWORD
5	REG_DWORD_BIG_ENDIAN
6	REG_LINK
7	REG_MULTI_SZ
8	REG_RESOURCE_LIST
9	REG_FULL_RESOURCE_DESCRIPTOR
10	REG_RESOURCE_REQUIREMENTS_LIST

- default value of key ".txt" of key "HKEY_CLASSES_ROOT" of the registry = "txtfile"
- True when the file extension is of type txtfile.
- exists default value of key "AppEvents\EventLabels\AppGPFault" of key "HKEY_CURRENT_USER" of registry
- ▶ Returns TRUE if the key exists and has a default value.

- type of value "ProfileFlags" of key "HKEY_CURRENT_CONFIG" of registry = "REG_BINARY"
- ▶ Returns TRUE when a value named ProfileFlags under the key "HKEY_CURRENT_CONFIG" exists and contains binary data.
- value "AutoRewind" of key "HKEY_CURRENT_USER\Software\Microsoft
 \ActiveMovie\Control\Media Player" of registry = 1
- Returns TRUE when the specified value of the key equals 1.
- size of value whose (name of it = "ProfileFlags") of key
 "HKEY_CURRENT_CONFIG" of registry = 4
- ▶ Returns TRUE when a value named ProfileFlags exists as a child of the key "HKEY_CURRENT_CONFIG" and the size of it is 4.
- type of default value of key "AppEvents\EventLabels\AppGPFault" of key "HKEY_CURRENT_USER of registry = "REG_SZ"
- ▶ Returns TRUE if the default type of the specified key is REG_SZ.

Registry Key Value Type

The type identifier of the data associated with a registry key value.

Key Phrase	Form	Description
type of <registry key="" value=""></registry>	Plain	Creates an integer designating the type of data stored in the registry key value. See the registry MS documentation for these numeric values, which correspond to the enumerated constants discussed in the " <registry key="" type="" value=""> as string" property. Win:1.2</registry>

Properties

Key Phrase	Form	Return Type	Description
<registry key="" value<br="">type> as string</registry>	Cast	<string></string>	Returns the type of value as a string. One of REG_SZ, REG_NONE, REG_DWORD, REG_LINK, REG_BINARY, REG_MULTI_SZ, REG_EXPAND_SZ, REG_RESOURCE_LIST, REG_DWORD_LITTLE_ENDIAN, REG_DWORD_BIG_ENDIAN, REG_FULL_RESOURCE_DESCRIPTOR, REG_RESOURCE_REQUIREMENTS_LIST. Win:1.2

Operators

Key phrase	Return Type	Description
<registry key="" type="" value=""> {cmp} <integer></integer></registry>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2
<pre><registry key="" type="" value=""> {cmp} <registry key="" type="" value=""></registry></registry></pre>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2
<registry key="" type="" value=""> {cmp} <string></string></registry>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2

Filesystem Objects

This chapter covers the keywords for extracting information from the file system, like files, drives, pathnames, folders, etc. It also includes the keywords needed to identify and compare version information of files and patches.

Filesystem Object

Key Phrase	Form	Return Type	Description
accessed time of <filesystem object=""></filesystem>	Plain	<time></time>	When the filesystem object (file or folder) was last accessed. Some file systems maintain this property.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
ancestor of <filesystem object=""></filesystem>	Plain	<folder></folder>	Returns all ancestor folders (recursive parent folders) of the given filesystem object (file or folder).
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
archive of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the Archive bit is turned on for the specified file or folder (filesystem object). This bit is often used by backup software.
			Win:6.0
compressed of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (filesystem object) has been compressed.
			Win:6.0
creation time of <filesystem object=""></filesystem>	Plain	<time></time>	The date and time of creation of the specified file or folder. This corresponds to what is shown in the "Get Info" box.
			Win:6.0, Mac:4.1
drive of <filesystem object=""></filesystem>	Plain	<drive></drive>	Returns the drive associated with the specified file or folder (filesystem object).
			Win:6.0
hidden of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (filesystem object) is marked as hidden.
			Win:6.0

Key Phrase	Form	Return Type	Description
location of <filesystem object=""></filesystem>	Plain	<string></string>	Returns the name of the directory in which the file or folder (filesystem object) is located.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
modification time of <filesystem object=""></filesystem>	Plain	<time></time>	The date and time of latest modification of the file. This corresponds to what is shown in the "Get Info" box.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:4.1
name of <filesystem< td=""><td>Plain</td><td><string></string></td><td>This returns the name of the file or folder.</td></filesystem<>	Plain	<string></string>	This returns the name of the file or folder.
object>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:4.1
normal of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (filesystem object) is 'normal'.
			Win:6.0
offline of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (the filesystem object) is marked as 'offline'.
			Win:6.0
parent folder of	Plain	<folder></folder>	The folder containing the specified file or folder.
<filesystem object=""></filesystem>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:4.1
pathname of <filesystem object=""></filesystem>	Plain	<string></string>	Returns the full pathname of the specified file or folder (filesystem object) as a string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
readonly of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (the filesystem object) is marked as read-only.
			Win:6.0
system of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (the filesystem object) is marked as a system folder.
			Win:6.0
temporary of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the file or folder (the filesystem object) is marked as a temporary folder.
			Win:6.0

- creation time of file "System" of System Folder > time "3 jan 1998 00:00+0000"
- ▶ Returns TRUE if the creation time of the system file is newer than the specified date.

- name of object "iChat.app" of applications folder
- Returns iChat.app.
- posix paths of items whose (name of it starts with "i") of applications folder
- Returns a list of the paths of applications starting with "i", such as /Applications/iCal.app, /Applications/iChat.app or /Applications/iTunes.app.

File

For each file in the file system, you can create a corresponding file object and inspect its properties. Inspectors are also provided to look at version data of executable files. File objects are derived from filesystem objects.

Creation Methods

See application objects for additional creation methods

Key Phrase	Form	Description
<registry key="" value=""> as file</registry>	Cast	If the value contains a string and the string points to an existing file, a file object is returned.
<registry key="" value=""> as system file</registry>	Cast	If the value contains a string and the string points to an file, a file object is returned. Relative paths are interpreted relative to the system folder. Win:1.2
active device file	PlainGlobal	Under Windows NT, returns a list of file objects corresponding the list returned from the Windows NT EnumDeviceDrivers() function. Win:1.2
active device file <string></string>	NamedGlobal	Under Windows NT, returns a file object corresponding to the name provided. Names provided need only match the last component of the file. This inspector uses the Windows NT EnumDeviceDrivers() function. Win:1.2
descendant of <folder></folder>	Plain	Returns a list of all the descendant files of the specified folder. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1

Key Phrase	Form	Description
file <string></string>	NamedGlobal	Returns a filesystem object corresponding to the full pathname provided in <string>.</string>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
file <string> of <folder></folder></string>	Named	Creates the file objects corresponding to the named file within the folder.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
file of <folder></folder>	Plain	Iterates through the files of a folder.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
file of <service></service>	Plain	This returns the executable file associated with the given <service> under Windows 2000 operating systems.</service>
		Win:3.0
find file <string> of <folder></folder></string>	Named	Creates an object corresponding to the files of the folder that that match the wildcard <string> provided.</string>
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
masthead of <site></site>	Plain	A copy of the masthead is maintained with the site data. This inspector returns a file object for the copy.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
system file <string></string>	NamedGlobal	Creates the file objects corresponding to the named file within the system folder.
		Win:1.2
system ini device file	PlainGlobal	Creates a list of file objects corresponding to all the device= lines of the system in file. Note that items whose pathnames start with '*' are not placed into this list.
		Win:1.2
system ini device file <string></string>	NamedGlobal	Creates a file object corresponding to a device file loaded as a result of a device= line of the system.ini file. The name provided should match the last component of the full path.
		Win:1.2
windows file <string></string>	NamedGlobal	Returns a file object corresponding to the relative pathname (within the Windows folder) provided. See file.
		Win:1.2

Key Phrase	Form	Description
x32 file <string></string>	NamedGlobal	Returns an object corresponding to a 32 bit file with name specified by <string>. Win:6.0</string>
x64 file <string></string>	NamedGlobal	Returns an object corresponding to a 64 bit file with pathname specified by <string>. On a 32-bit computer, this is equivalent to a normal file Inspector, but on a 64-bit machine, this Inspector returns an object that has filesystem redirection disabled. Win:6.0</string>

File systems that do not maintain the creation or last accessed times will often return the last modification time when queried for the creation or last accessed times or files. Modification times are preserved when files are copied. Thus, it is not uncommon to see a file that appears to have been modified before it was created.

Key Phrase	Form	Return Type	Description
<file> as string</file>	Cast	<string></string>	Creates a string containing the full pathname of the specified file. See <file>.</file>
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
byte <integer> of <file></file></integer>	Numbered	<integer></integer>	Returns the numeric value of the byte located at the offset specified by number within the file. Byte 0 of the file is the first byte.
			Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
content of <file></file>	Plain	<file content></file 	Returns an object that can be used to search for a string in the file. See content.
			Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
executable file format of <file></file>	Plain	<string></string>	Returns a four-byte string containing the format specifier for the specified file.
			Win:4.1
file version of <file></file>	Plain	<version></version>	Returns the file version extracted from the file's resource block. See version.
			Win:1.2

Key Phrase	Form	Return Type	Description
first raw version block of <file></file>	Plain	<file version block></file 	Returns the first version block directly from a PE file. If the first block is sufficient for your purposes, use this version inspector for best speed.
			Win:4.1
key <string> of <file></file></string>	Named	<string></string>	Returns a key and its value from the given structured text file. It iterates over lines that start with the key name (as specified by <string>) followed by an = or : character. When searching, white space is ignored.</string>
			Win:4.1, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
line <integer> of <file></file></integer>	Numbered	<string></string>	Returns the nth line (specified by <integer>) from the given file. • Note: On Unix computers this Inspector returns a <file line=""> object as of BES 6.0.</file></integer>
			Win:4.1, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
line <integer> of <file></file></integer>	Numbered	<file line=""></file>	Returns the nth line (specified by <integer>) from the given file.</integer>
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
line containing <string> of <file></file></string>	Named	<string></string>	Returns all lines from the given file that contain the specified string. • Note: On Unix computers this Inspector returns a <file line=""> object as of BES 6.0.</file>
			Win:4.1, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
line containing <string> of <file></file></string>	Named	<file line=""></file>	Returns all lines from the given file that contain the specified string.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
line of <file></file>	Plain	<string></string>	Iterates over all the lines of the specified file. Lines are truncated to 1023 characters. • Note: On Unix computers this Inspector returns a <file line=""> object as of BES 6.0. Win:4.1, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1</file>
line of <file></file>	Plain	<file line=""></file>	Iterates over all the lines of the specified file. NOTE: lines are truncated to 1023 characters. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1

Key Phrase	Form	Return Type	Description
line starting with <string> of <file></file></string>	Named	<string></string>	Same as line <string> of <file>. • Note: On Unix computers this Inspector returns a <file line=""> object as of BES 6.0.</file></file></string>
			Win:4.1, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
line starting with	Named	<file line=""></file>	Same as line <string> of <file>.</file></string>
<string> of <file></file></string>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
only raw version block of <file></file>	Plain	<file version block></file 	Returns the only version block directly from a PE file. Win:4.1
only version block of <file></file>	Plain	<file version block></file 	Most files only have 1 version block. This property allows language independent access when there is only one version block present. The result is the same as 'version block 1'. Win:1.2
product version of <file></file>	Plain	<version></version>	Returns the product version extracted from the file's resource block. See version. Win:1.2
raw file version of <file></file>	Plain	<version></version>	Returns the file version directly from a PE file. Win:4.1
raw product version of <file></file>	Plain	<version></version>	Returns the product version directly from a PE file. Win:4.1
raw version block <integer> of <file></file></integer>	Numbered	<file version block></file 	Returns the numbered version block directly from a PE file. Win:4.1
raw version block <string> of <file></file></string>	Named	<file version block></file 	Returns the named version block directly from a PE file. Win:4.1
raw version block of <file></file>	Plain	<file version block></file 	Returns the version block directly from a PE file. Win:4.1
raw version of <file></file>	Plain	<version></version>	Returns the version directly from a PE file. Win:4.1

Key Phrase	Form	Return Type	Description
section <string> of <file></file></string>	Named	<file section></file 	Returns a named section of a file. Useful for locating sections of 'ini' files. Section names are delimited by square bracket characters '[section name]'. See examples below.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
security descriptor of <file></file>	Plain	<pre><security descriptor=""></security></pre>	Specifies the security descriptor associated with the specified file.
			Win:4.1
sha1 of <file></file>	Plain	<string></string>	Returns the sha1 checksum of the file hex encoded as a 40 character long string.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
shortcut of <file></file>	Plain	<file shortcut></file 	Returns the properties and locates the target of a file shortcut: • pathname (string) • start in pathname (string) • argument string (string) • icon pathname (string) • icon index (integer).
			Win:1.2
size of <file></file>	Plain	<integer></integer>	Returns the size in bytes of a file.
		-	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
variable of <file></file>	Plain	<string></string>	Returns the names of variables contained in an INF style file, in the format [section].name=value.
			Win:4.1, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
version block <integer> of <file></file></integer>	Numbered	<file version block></file 	You can identify the particular version block you want to access by ordinal number. Win:1.2
version block <string> of <file></file></string>	Named	<file version block></file 	You can identify the particular version block you are looking up by name. The name you provide should match the id string of the version block. Win:1.2
11 1 0 (01)	DI :	-C1	
version block of <file></file>	Plain	<file version block></file 	Iterates through the version blocks of a file. Win:1.2

Key Phrase	Form	Return Type	Description
version of <file></file>	Plain	<version></version>	Synonym for file version of <file>. Win:1.2, Mac:4.1</file>
xml document of <file></file>	Plain	<xml document="" dom=""></xml>	Returns an XML Document Object Model (DOM) for the specified file. Win:5.1

Folder and file names may be case sensitive. Use "as uppercase" or "as lowercase" if you don't know the actual case when making comparisons. Iterating through folders with many files can be time consuming. Consider using the "find file" Inspector which allows you to filter set of files by using the wildcard.

Note

The format of the string returned when casting a file using 'as string' is: "<fileName>" "<version>" "<fileDesc>" "<fileVersion>" "<companyName>" Where:

<filename></filename>	The name of the file		
<version></version>	The 'Product Version' of the file.		
<filedesc></filedesc>	The value 'FileDescription' of version block 1 of the file.		
<fileversion></fileversion>	The value 'FileVersion' of version block 1 of the file.		
<companyname></companyname>	The value 'CompanyName' of version block 1 of the file.		

- Number of find files "siteico*.bmp" of client folder of current site = 3
- Returns TRUE if there are 3 files matching the wildcard pattern siteico*.bmp.
- modification time of masthead of current site < time "4 Aug 1997
 01:00 pdt"</pre>
- ▶ TRUE if the masthead is older than the specified date.
- exists windows file "command.com"
- Verifies the existence of the named file in the Windows folder.
- byte 0 of file "C:\test.txt"
- Returns the first byte in the specified file.

- content of file "oeminfo.ini" of system folder as lowercase contains "dell"
- Returns TRUE if the specified file contains the string "dell" anywhere in the file.
- executable file format of client
- ▶ Returns a string like "PE%00%00".
- file version of application "iexplore.exe" of the registry < "4"
- Test for older version of IE -- returns TRUE is version is less than 4.
- line 5 of file "/usr/lib/foobar"
- Returns the fifth line of the specified file.
- lines starting with "foo" of file "/usr/lib/foobar"
- Iterates over lines of the given file that start with "foo".
- product version of file "qna.exe" of parent folder of regapp
 "bigfix.exe" = product version of regapp "bigfix.exe"
- Verifies the existence a co-executable located in the same folder with the proper version.
- product version of regapp "bigfix.exe" > version "1.0.21"
- Returns TRUE if the application has a version of 1.0.22 or higher, and FALSE if the application has a version of 1.0.21 or less.
- pathname of shortcut of file "BigFix.lnk" of (value "Common
 Desktop" of key
 "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explo
 rer\Shell Folders" of registry as folder)
- Returns the pathname associated with the shortcut.
- version of file (pathname of shortcut of file "BigFix.lnk" of folder "c:\Documents and Settings\All Users\Desktop")
- Returns the version number of the application to which the shortcut points.

Application

Application objects derive from file objects. Therefore, application objects inherit all of the properties of the file object. This means that you can inspect properties such as 'modification time' or 'Product Version' of an application just as you would a file. See the properties of a file object for a complete list of these.

• The real power and primary purpose of the application object is their creation. The creation methods are optimized in anticipation of the importance of this object.

Key Phrase	Form	Description
<registry key="" value=""> as application</registry>	Cast	If the value is of type string, and the string is a full pathname to an executable that exists on disk, an application object is created.
		Win:1.2
application <string></string>	NamedGlobal	Creates an application object for the name provided.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
application <string> of <folder></folder></string>	Named	As with the file object, you can create an application object by naming it relative to its parent folder.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
application <string> of <registry key=""></registry></string>	Named	Creates the application object associated with the named command. Normally used with a sub-key of key HKEY_CLASSES_ROOT whose name is a file type.
		Win:1.2
application <string> of <registry></registry></string>	Named	Creates the application object associated with the name provided. The name provided must be the name of a sub-key of the 'App Paths' registry key. See notes.
		Win:1.2
application of <registry key=""></registry>	Plain	Creates the application object associated with the "open" command. Normally used with a sub-key of key HKEY_CLASSES_ROOT whose name is a file extension.
		Win:1.2
application of <registry></registry>	Plain	Iterates through the 'App Paths' registry key creating objects for the applications that exist. See notes. Win:1.2
default web browser	PlainGlobal	Returns the application object (typically the web browser) associated with HTML documents. Win:3.0
recent application	PlainGlobal	Iterates through the list of recently executed applications, creating application objects. This includes the list of all currently running applications. Win:1.2, Lin:6.0
recent application <string></string>	NamedGlobal	If named application has been executed recently, this
		, tills

Key Phrase	Form	Description
		inspector creates an application object. Only specify the last component of the filename.
		Win:1.2, Lin:6.0
regapp	PlainGlobal	Iterates through the applications of the registry. The applications will be those associated with the sub-keys of the 'App Paths' registry key. See notes.
		Win:1.2
regapp <string></string>	NamedGlobal	Returns an application object for the name provided. On a Macintosh, returns a file that has been registered with Launch Services. See application and regapp.
		Win:1.2
running application	PlainGlobal	Iterates through the list of running applications.
		Win:1.2, Lin:6.0
running application <string></string>	NamedGlobal	If the named application is currently executing then this inspector creates an application object. Only specify the last component of the file name.
		Win:1.2, Lin:6.0
x32 application <string></string>	NamedGlobal	Returns an object corresponding to the 32-bit application specified by <string>.</string>
		Win:6.0
x64 application <string></string>	NamedGlobal	application specified by <string>. On a 32-bit computer, this is equivalent to a normal application Inspector, but on a 64-bit machine, this Inspector returns an object that has filesystem redirection disabled.</string>
		Win:6.0

See 'File' for a list of the Application properties. Folder and file names may be case sensitive. Use "as uppercase" or "as lowercase" if you don't know the actual case when making comparisons. For Windows versions of these Inspectors, a properly installed application will register itself with the operating system. It does this by creating a registry sub-key usually named after the executable. The regapp Inspector uses the default value of this sub-key as a string that is the full pathname of the executable.

- application "qna.exe" of parent folder of application "bigfix.exe" of the registry
- Using the application of folder creation method, this example locates the 'sibling' application qualexe provided it exists in the same folder in which the registered application 'bigfix.exe' is installed.
- exists application "notepad.exe" of the windows folder
- Using the application of folder creation method, this example locates the notepad application provided it exists in the Windows folder.
- name of application "print" of key "HKEY_CLASSES_ROOT\.gif" of registry
- Returns the name of the application currently responsible for printing gif files.
- name of application "print" of key "HKEY_CLASSES_ROOT\giffile" of the registry
- ▶ The same as above when the default value of the key HKEY_CLASSES_ROOT\.gif contains giffile. These two examples demonstrate the method used by Windows to maintain file associations in the registry.
- application of key "HKEY_CLASSES_ROOT\mailto" of the registry
- This example returns the application responsible for handling mailto requests in your web browser.
- names of regapps
- Primarily used in QnA to obtain lists of applications installed under the "app path" key of the registry.
- byte 0 of regapp "bigfix.exe" = 77
- ▶ TRUE if the first byte in the specified file is ASCII 77.
- regapp "IEXPLORE.EXE"
- Returns the application object associated with the named registry key. Checks to see if the executable exists and if so, returns the application object. Case is ignored.
- exists running application whose (name of it as lowercase is "winword.exe")
- ▶ Returns TRUE if Microsoft Word is currently executing.

Folder

For every folder that exists in the file system, you can create a folder object. The properties of this object allow you to examine many aspects of the system. Folder objects are derived from filesystem objects. On the Macintosh, there are dozens of specialized folders; access to them depends on the domain. If the domain is not specified, it defaults to the system domain.

Creation Methods

Key Phrase	Form	Description
<registry key<br="">value> as folder</registry>	Cast	If the value in the registry is a string, and the string points to an existing folder, a folder object is returned.
		Win:1.2
ancestor of <filesystem< td=""><td>Plain</td><td>Returns all ancestor folders (recursive parent folders) of the given filesystem object (file or folder).</td></filesystem<>	Plain	Returns all ancestor folders (recursive parent folders) of the given filesystem object (file or folder).
object>		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
application folder <string> of <registry key=""></registry></string>	Named	Synonym for pathname of parent folder of regapp <string>. Win:1.2</string>
application folder <string> of <registry></registry></string>	Named	Creates a folder object for the name given. Name is used to search through AppPaths of the registry. Application doesn't have to exist. Folder must exist.
		Win:1.2
application folder of <registry key=""></registry>	Plain	Creates a folder object for the name given. If the registry key has a "shell\open\command\" subkey and the unnamed value points to an executable, this will return the parent folder of the executable if the application and folder exist.
		Win:1.2
client folder of <site></site>	Plain	Creates an object corresponding to the folder on the client where site data is gathered.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
folder <string></string>	NamedGlobal	Creates a folder object for the named folder. This is a global property.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
folder <string> of <drive></drive></string>	Named	Creates a folder object for the name provided if it exists on the drive provided.
		Win:1.2

Key Phrase	Form	Description
folder <string> of <folder></folder></string>	Named	Creates a folder object for the named sub-folder. Trailing slashes should be omitted from the name.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
folder of <folder></folder>	Plain	Iterates through the sub-folders of the folder object.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
install folder <integer></integer>	NumberedGlobal	Creates a folder object corresponding to the number provided. The placement of some system folders can be found using numbers that have been associated with those folders. See notes.
		Win:1.2
parent folder of <filesystem< td=""><td>Plain</td><td>The folder containing the specified file or folder.</td></filesystem<>	Plain	The folder containing the specified file or folder.
object>		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:4.1
root folder of	Plain	Creates a folder object for the root of the given drive.
<drive></drive>		Win:1.2
system wow64 folder	PlainGlobal	Returns a filesystem object corresponding to a "Windows On Windows 64" system folder, which does not exist on 32-bit Windows. You can find out more about the WOW64 system folder at the Microsoft site: http://msdn.microsoft.com/library/default.asp?url=/library/en-us/sysinfo/base/getsystemwow64directory.asp.
system x32 folder	PlainGlobal	Returns a filesystem object corresponding to a 32-bit system folder. On a 32-bit machine, this is equivalent to the normal system folder. Win:6.0
system x64 folder	PlainGlobal	Returns a filesystem object corresponding to a 64-bit system folder. This is the same as the system folder, but with file system redirection disabled. For more information about file redirection, see the Microsoft site http://msdn.microsoft.com/library/default.asp?url=/library/enus/win64/win64/file_system_redirector.asp.
windows folder	PlainGlobal	Creates a folder object of the Windows folder. This is operating system dependent. Under Win98 this is usually c:\Windows.

Key Phrase	Form	Description
		Win:1.2
x32 folder <string></string>	NamedGlobal	Returns a filesystem object corresponding to a 32-bit folder with the specified pathname. Win:6.0
x64 folder <string></string>	NamedGlobal	Returns a filesystem object corresponding to a 64-bit folder with the given pathname. On a 32-bit computer, this is equivalent to a normal folder Inspector, but on a 64-bit machine, this Inspector returns an object that has filesystem redirection disabled. This action is transitive: any resulting filesystem objects will also have redirection disabled. For example, "pathnames of files of x64 folder <pre>path>"</pre> will disable redirection when locating the folder, iterating over the files in the folder and calculating pathnames. Win:6.0

Key Phrase	Form	Return Type	Description
application <string> of <folder></folder></string>	Named	<application></application>	Returns an application object for the named file located in the folder. See application.
			Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
descendant of <folder></folder>	Plain	<file></file>	Returns a list of all the descendant files of the specified folder. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
file <string> of <folder></folder></string>	Named	<file></file>	Returns a file object for the named file located in the folder. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
file of <folder></folder>	Plain	<file></file>	Iterates through the files of a folder returning file objects. When combined with a whose clause you can select files with specific properties. See file. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
find file <string> of <folder></folder></string>	Named	<file></file>	Iterates through the files of a folder returning file objects whose name matches the search string provided in the name parameter. See example

Key Phrase	Form	Return Type	Description
			below.
			Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
folder <string> of <folder></folder></string>	Named	<folder></folder>	Returns a folder object for the named sub-folder. Trailing slashes should be omitted from the name.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
folder of <folder></folder>	Plain	<folder></folder>	Iterates through the folders of a folder returning folder objects. When combined with a whose clause, you can select folders with specific properties. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
security descriptor of <folder></folder>	Plain	<security descriptor></security 	Specifies the security descriptor associated with the specified folder. Win:4.1

Note

Folder and file names may be case sensitive. Use "as uppercase" or "as lowercase" if you don't know the actual case when making comparisons. Be very careful not to iterate through folders that contain lots of files. Counting files in folders that contains lots of files can be slow. Always try to use the most efficient techniques to minimize the client overhead.

Examples

- exists folder "c:\program files"
- Checks for the existence of the program files folder.
- exists folder "fonts" of the windows folder
- ▶ Returns TRUE if fonts is a subdirectory of the Windows directory.
- install folder 11
- Returns a folder object for system folder identified with this number.
- exists file whose (name of it contains ".pdf") of folder "name"
- Returns TRUE if some file in the folder has a name including the string ".pdf".

Drive

The drive object is available to inspect these aspects of the file system.

Creation Methods

Key Phrase	Form	Description
drive	PlainGlobal	Iterates through all valid drives on the system.
		Win:1.2
drive <string></string>	NamedGlobal	Creates the drive object for the name specified.
		Win:1.2
drive of <filesystem object=""></filesystem>	Plain	Returns the drive associated with the specified file or folder (filesystem object).
		Win:6.0

Key Phrase	Form	Return Type	Description
file system type of <drive></drive>	Plain	<string></string>	Value as reported by GetVolumeInformation. Win:1.2
file_supports_encryption of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
file_supports_object_ids of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
file_supports_reparse_points of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
file_supports_sparse_files of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
file_volume_quotas of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
folder <string> of <drive></drive></string>	Named	<folder></folder>	Returns a folder object corresponding to the name given provided that folder exists on the drive. Win:1.2

Key Phrase	Form	Return Type	Description
free space of <drive></drive>	Plain	<integer></integer>	Returns the number of unused bytes of storage for the drive. (Only available for fixed disks). Win:1.2
fs_case_is_preserved of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
fs_case_sensitive of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
fs_file_compression of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
fs_persistent_acls of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
fs_unicode_stored_on_disk of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
fs_vol_is_compressed of <drive></drive>	Plain	<boolean></boolean>	TRUE if bit is returned by GetVolumeInformation. Win:1.2
name of <drive></drive>	Plain	<string></string>	Returns the name of the drive. Names look like 'c:' and 'D:'. Win:1.2
numeric type of <drive></drive>	Plain	<integer></integer>	Returns the type of drive as an integer. Win:1.2
root folder of <drive></drive>	Plain	<folder></folder>	Returns the folder corresponding to the root of the drive. Win:1.2
total space of <drive></drive>	Plain	<integer></integer>	Returns the size in bytes of the drive. (Only available for fixed disks). Win:1.2
type of <drive></drive>	Plain	<string></string>	Returns the type of drive as a string.

Key Phrase	Form	Return Type	Description
			Win:1.2

Note

The drive object does not exist if the file is located on a file server. The expression drive of file "command.com" of folder "\\oak\c\windows" will fail even though the file exists. Drive objects do not exist for shared files and shared folders unless they have been mapped as a drive letter. The name of drives may be upper or lower case. The type of drive can be inspected. The values as string and integer are:

Type of drive	Numeric type
DRIVE_UNKNOWN	0
DRIVE_NO_ROOT_DIR	1
DRIVE_REMOVABLE	2
DRIVE_FIXED	3
DRIVE_REMOTE	4
DRIVE_CDROM	5
DRIVE_RAMDISK	6

- free space of drive "c:" < 1000000
- Returns TRUE if there is less than one million bytes of space left on drive C.
- name of drive of regapp "vshield.exe" as lowercase = "e:"
- Returns TRUE if the application exists on drive E.
- numeric type of drive "e:" = 5
- Returns TRUE if drive E is a CD-ROM. (See notes).
- total space of drive "c:" > 2000000000
- Returns TRUE when the drive is capable of holding more than 2 billion bytes.
- type of drive of the system folder = "DRIVE_FIXED"
- Returns TRUE if the system folder is on a fixed disk drive.

File Shortcut

Shortcuts to files can be constructed in the file system. The shortcut contains some additional properties that can be inspected.

Creation Methods

Key Phrase	Form	Description
shortcut of <file></file>		Creates a shortcut object for the file. If the file is not a shortcut, this property does not exist.
		Win:1.2

Properties

Key Phrase	Form	Return Type	Description
argument string of <file shortcut=""></file>	Plain	<string></string>	Returns the arguments that are passed to the application to which the shortcut points when the user attempts to open the shortcut. Win:1.2
icon index of <file shortcut></file 	Plain	<integer></integer>	The index number of the icon in the file containing the icon associated with the shortcut. Win:1.2
icon pathname of <file shortcut=""></file>	Plain	<string></string>	The full path name of the file containing the icon associated with the shortcut. Win:1.2
pathname of <file shortcut></file 	Plain	<string></string>	Returns the full path name of the object to which the shortcut points. Win:1.2
start in pathname of <file shortcut=""></file>	Plain	<string></string>	Returns the full path name the system sets the current directory when the user launches the shortcut. Win:1.2

- pathname of shortcut of file "BigFix.lnk" of (value "Common Desktop" of key
- "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders" of registry as folder)
- Returns the pathname associated with shortcut.

- pathname of parent folder of system folder = pathname of windows folder
- Checks that the system folder is located inside the Windows folder.

File Section

Many programs and utilities store their settings in 'ini' files. This object is designed to access these settings. An 'ini' file is composed of zero or more named sections, each with zero or more keys. Each key is identified by name and has a string value.

Creation Methods

Key Phrase	Form	Description
section <string> of <file></file></string>	Named	Creates a file section for the name given. A case-insensitive search is performed to locate the named section in the file. Searching through files for configuration data can be a slow process. Particularly for large ini files. In this case you may want to find another method that requires less computation. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1

Properties

Key Phrase	Form	Return Type	Description
key <string> of <file section=""></file></string>	Named	<string></string>	Returns a string containing the value for the name provided. A case-insensitive search is performed through the section of the file. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1

Note

Files with an extension of .ini are common in Windows systems, but rare in unix systems. However they are a handy cross-platform way of maintaining a collection of named variables.

- exists Section "General" of file "oeminfo.ini" of system folder
- Returns TRUE if a section named "General" appears in the named "ini" file.
- key "Manufacturer" of section "General" of file "oeminfo.ini" of system folder
- Returns the name of the computer manufacturer, such as "Dell Computer Corporation".

File Content

Content objects can be constructed from file objects to inspect their contents.

Creation Methods

Key Phrase	Form	Description
<file content=""> as lowercase</file>	Cast	Returns the contents of the file as lower case characters. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<file content=""> as uppercase</file>	Cast	Returns the contents of the file as upper case characters. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
content of <file></file>	Plain	Creates a content object for a file.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<file content=""> as lowercase</file>	Cast	<file content></file 	Returns a lowercase version of the content provided. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
<file content=""> as uppercase</file>	Cast	<file content></file 	Returns an uppercase version of the content provided. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Operators

Key phrase	Return Type	Description
<file content=""> contains <string></string></file>	<boolean></boolean>	Returns TRUE if the string is located in the content provided.
		Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Note

See "file section" for a more detailed inspection of .ini files.

Examples

- content of file "oeminfo.ini" of system folder contains "Manufacturer=Dell"
- ▶ Returns TRUE if the exact character sequence "Dell" is located in the file.
- content of file "oeminfo.ini" of system folder as lowercase contains "emachines"
- Returns TRUE if either of the strings "emachines" or "eMachines" is found in the file.

Version

This is the numeric method of indicating the file version, which is compact, convenient and fast. It makes use of a short string to define the version number.

Creation Methods

Key Phrase	Form	Description
<string> as version</string>	Cast	Turns a string into a version object.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
<version> as version</version>	Cast	Reflexive cast of version.
		Win:1.2
file version of <file></file>	Plain	Creates a version object associated with the FILEVERSION property of the file.
pad of <version></version>	Plain	Creates a version object which is padded with zero values. Win:1.2

Key Phrase	Form	Description
product version of <file></file>	Plain	Creates a version object associated with the PRODUCTVERSION property of the file.
raw file version of <file></file>	Plain	Same as file version, but allows a workaround for anomalous behavior on Windows systems with the Windows language pack installed (the MUI). Win:4.1
raw product version of <file></file>	Plain	Same as product version, but allows a workaround for anomalous behavior on Windows systems with the Windows language pack installed (the MUI). Win:4.1
raw version of <file></file>	Plain	Same as version, but allows a workaround for anomalous behavior on Windows systems with the Windows language pack installed (the MUI). Win:4.1
version <string></string>	NamedGlobal	Creates a version object corresponding to the name provided. Syntax: version "1.2". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
version of <file></file>	Plain	Shorthand for file version of <file>. Win:1.2, Mac:4.1</file>

Key Phrase	Form	Return Type	Description
<version> as string</version>	Cast	<string></string>	Turns a version type into a string of the form "1.2.3.4". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<version> as version</version>	Cast	<version></version>	Reflexive cast of version. Win:1.2
pad of <version></version>	Plain	<version></version>	Returns a version object which is padded with zero values. Win:1.2

Operators

Key phrase	Return Type	Description
<version> {cmp} <string></string></version>	<boolean></boolean>	Returns a boolean TRUE or FALSE, depending on the comparison operator, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
<version> {cmp} <version></version></version>	<boolean></boolean>	Returns a boolean TRUE or FALSE, depending on the comparison operator, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Note

Using the numeric version data is better than identifying an application based on version block strings. If you know the numeric version information and that the developer has identified each release of his application uniquely, then this is the way to proceed. It requires far less overhead than the other method. Furthermore, if you know that the numeric version data is monotonically increasing then you can compare their values using the special comparison operators.

- "MyApp 1.2" as version = version "1.2"
- ▶ The version cast looks through the string until it identifies something that can be interpreted as a version. This is convenient for extracting version numbers out of strings that contain both version numbers and textual description.
- file version of file "Winsock.dll" of windows folder =
 "4.0.0.1111"
- ▶ Returns TRUE if the dll has the specified version number.
- pad of version "1.2" = version "1.2.0.0"
- Returns TRUE.
- product version of regapp "bigfix.exe" > version "1.0.21"
- TRUE if the application has a version of 1.0.22 or higher. FALSE if the application has a version of 1.0.21 or less.
- product version of file "qna.exe" of parent folder of regapp
 "bigfix.exe" = product version of regapp "bigfix.exe"
- Verifies the existence a co-executable located in the same folder with the proper version.

- product version of regapp "bigfix.exe" > version "1.0.21"
- Returns TRUE if the application has a version of 1.0.22 or higher, and FALSE if the application has a version of 1.0.21 or less.
- version of file "Winsock.dll" of windows folder = "4.0.0.1111"
- The plain version inspector is a shorthand for file version.
- version of regapp "bigfix.exe" as string = "1.0.45.0"
- Returns TRUE if the BigFix application has the specified version.

File Version Block

You can inspect the version blocks of a file. There may be several language-specific version blocks. Version blocks contain version and name information in a human readable form for the specified language. This is the information that Windows displays in the file properties dialog. This technique uses string values and has a limited array of comparators. For better speed, utility and compactness see the version object.

Creation Methods

Key Phrase	Form	Description
first raw version block of <file></file>	Plain	Returns the first version block directly from a PE file. If the first block is sufficient for your purposes, use this version inspector for best speed. Win:4.1
only raw version block of <file></file>	Plain	Returns the only version block directly from a PE file. Win:4.1
only version block of <file></file>	Plain	Most applications only have 1 version block. This inspector allows language independent access when there is only one version block present. Win:1.2
raw version block <integer> of <file></file></integer>	Numbered	Returns the numbered version block directly from a PE file. Win:4.1
raw version block <string> of <file></file></string>	Named	Returns the named version block directly from a PE file. Win:4.1
raw version block of <file></file>	Plain	Returns the version block directly from a PE file. Win:4.1

Key Phrase	Form	Description
version block <integer> of <file></file></integer>	Numbered	You can identify the particular version block you are looking up by ordinal number. 'Version block 1' is equivalent to 'Only Version block'. Win:1.2
version block <string> of <file></file></string>	Named	You can identify the particular version block you are looking up by name. The name you provide should match the id string of the version block. Win:1.2
version block of <file></file>	Plain	Iterates through the version blocks of a file.
		Win:1.2

Key Phrase	Form	Return Type	Description
codepage of <file version block></file 	Plain	<string></string>	A string representation of the codepage portion of the id of this version block. See notes for known codepage strings. For example, 'Unicode'. Win:1.2
id of <file version<br="">block></file>	Plain	<string></string>	A string representation containing both the language and codepage of this version block. The format is 8 hex digits, 4 of the codepage concatenated with 4 of the language. For example, '040904b0'. See notes for known values. Win:1.2
language of <file version block></file 	Plain	<string></string>	A string representation of the language portion of the id of this version block. For example, 'English (United States)'. See notes for known values. Win:1.2
value <string> of <file version block></file </string>	Named	<string></string>	Returns a string corresponding to the name provided. Values have names such as 'CompanyName', 'FileDescription', 'FileVersion'. Win:1.2

Note

The value, ID, language and codepage properties of the file version block have the following typical values:

value:

Each application can define its own set of values. Standard values include:

CompanyName

FileDescription *

FileVersion *

InternalName

LegalCopyright *

OriginalFilename

ProductName

ProductVersion

Comments

LegalTrademarks

PrivateBuild

SpecialBuild

id:

The version block id is an eight character string. The left 4 characters of the string identify the language while the right 4 characters of the string identify the codepage of a version block. When looking up a version block by its name, you specify the id as a string. The id's of version blocks are case insensitive.

language:

The language inspector returns the full language name. Language names are found using the left 4 hex characters of the id. Thus if the id of the version block is '040904b0', then the language returned would be 'English (United States)'.

^{*} As displayed on the version property sheet of the properties of a file.

Here are some sample language identifiers (left 4 hex chars):

0000		0000	I NI t 1	1001	A 1: - (M)
	Language Neutral	0800	Language Neutral	1801	Arabic (Morocco)
0400	Process Default Language	0801	Arabic (Iraq)	1809	English (Ireland)
0401	Arabic (Saudi Arabia)	0804	Chinese (PRC)	180A	Spanish (Panama)
0402	Bulgarian	0807	German (Swiss)	1C01	Arabic (Tunisia)
0403	Catalan	0809	English (British)	1C09	English (South Africa)
0404	Chinese (Taiwan)	080A	Spanish (Mexican)	1C0A	Spanish (Dominican Republic)
0405	Czech	080C	French (Belgian)	2001	Arabic (Oman)
0406	Danish	0810	Italian (Swiss)	2009	English (Jamaica)
0407	German (Standard)	0812	Korean (Johab)	200A	Spanish (Venezuela)
0408	Greek	0813	Dutch (Belgian)	2401	Arabic (Yemen)
0409	English (United States)	0814	Norwegian (Nynorsk)	2409	English (Caribbean)
040A	Spanish (traditional Sort)	0816	Portuguese (Standard)	240A	Spanish (Colombia)
040B	Finnish	081A	Serbian (Latin)	2801	Arabic (Syria)
040C	French (Standard)	081D	Swedish (Finland)	2809	English (Belize)
040E	Hungarian	0C01	Arabic (Egypt)	280A	Spanish (Peru)
040F	Icelandic	0C04	Chinese (Hong Kong)	2C01	Arabic (Jordan)
0410	Italian (Standard)	0C07	German (Austrian)	2C09	English (Trinidad)
0411	Japanese	0C09	English (Australian)	2C0A	Spanish (Argentina)
0412	Korean	0C0A	Spanish (Modern Sort)	3001	Arabic (Lebanon)
0413	Dutch (Standard)	0C0C	French (Canadian)	300A	Spanish (Ecuador)
0414	Norwegian (Bokmal)	0C1A	Serbian (Cyrillic)	3401	Arabic (Kuwait)
0415	Polish	1001	Arabic (Lybia)	340A	Spanish (Chile)
0416	Portuguese (Brazilian)	1004	Chinese (Singapore)	3801	Arabic (U.A.E)
0418	Romanian	1007	German (Luxembourg)	380A	Spanish (Uruguay)
0419	Russian	1009	English (Canadian)	3C01	Arabic (Bahrain)
041A	Croation	100A	Spanish (Guatemala)	3C0A	Spanish (Paraguay)
041B	Slovak	100C	French (Swiss)	4001	Arabic (Qatar)
041D	Swedish	1401	Arabic (Algeria)	400A	Spanish (Bolivia)
041F	Turkish	1407	German (Liechtenstein)	440A	Spanish (El Salvador)
0423	Belarusian	1409	English (New Zealand)	480A	Spanish (Honduras)
0424	Slovene	140A	Spanish (Costa Rica)	4C0A	Spanish (Nicaragua)
042D	Basque	140C	French (Luxembourg)	500A	Spanish (Puerto Rico)

codepage:

The right 4 characters of the id correspond to the codepage as in these examples:

0000	7-bit ASCII	04B0	Unicode	04E5	Windows, Greek
03A4	Windows, Japan	0400	Windows, Latin-2	04E7	Windows, Hebrew
03B5	Windows, Korean	04E3	Windows, Cyrillic	2710	Macintosh, Roman
03B6	Windows, Taiwan	04E4	Windows, Multilingual	2711	Macintosh, Japanese

The string 'Unknown' is returned for an unidentified language or codepage.

- value "CompanyName" of version block 1 of regapp "bigfix.exe" =
 "BigFix Inc."
- Returns TRUE if the "CompanyName" value of the given file's version block equals the specified string.
- exists version block "040904B0" of regapp "bigfix.exe"
- Returns TRUE if the designated version block exists. The case of the name of the version block is ignored.
- codepage of only version block of regapp "bigfix.exe" is "Unicode"
- Returns TRUE if the version block codepage for the specified file is unicode.
- id of only version block of regapp "bigfix.exe" is "040904b0"
- Returns TRUE if the given file's version block id is the specified string.
- language of version block 1 of regapp "bigfix.exe" = "English (United States)"
- Returns TRUE if the given file's version block language is as specified.
- value "FileVersion" of version block 1 of regapp "bigfix.exe" as version
- When casting a string value to a version, the parser skips through the string until it identifies something that can be interpreted as a version. This is convenient for extracting version numbers from strings containing added text.

File Line

A file line is a string from a text file.

Creation Methods

Key Phrase	Form	Description
line <integer> of <file></file></integer>	Numbered	Returns the nth line in a file. A file line is just a string, except that you can use the additional properties "next line" and "previous line".
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
line containing <string> of <file></file></string>	Named	Returns the line with the specified search string in the given file.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
line of <file></file>	Plain	Returns the lines of a specified file.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
line starting with <string> of <file></file></string>	Named	Returns a line from the given file beginning with the specified phrase.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
next line of <file line=""></file>	Plain	Returns the line after the specified line in a file (provided that it is not the last line). This Inspector can be chained indefinitely, eg., next line of next line of Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
previous line of <file line=""></file>	Plain	Returns the line before the nth line in a file, provided n>1. You may repeat this command up to three times.
		Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

Properties

Key Phrase	Form	Return Type	Description
line number of <file line=""></file>	Plain	<integer></integer>	Returns the line number of a given line. Can be used to locate specific lines in a file. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mae:5.1
next line of <file line=""></file>	Plain	<file line=""></file>	Returns the line after the specified line in a file (provided that it is not the last line). This Inspector can be chained indefinitely, eg., next line of next line of Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1
previous line of <file line=""></file>	Plain	<file line=""></file>	Returns the line before the nth line in a file, provided n>1. You may repeat this command up to three times. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1, Mac:5.1

- line 2 of (file "printmon.inf" of system folder)
- Returns the second line of the specified file.
- lines containing "Signature]" of file "mmdriver.inf" of system folder
- Returns a list corresponding to the top-level sections involving signatures in the specified .inf file.
- lines of file "mmdriver.inf" of system folder
- ▶ Returns a list of the lines of the specified file.
- lines starting with "[" of file "mmdriver.inf" of system folder
- Returns a list corresponding to all the top-level sections (lines that start with "[") in the specified .inf file.
- next line of line containing "[mciavi]" of file "mmdriver.inf" of system folder
- Returns the line after the one containing "[mciavi]", which is a string such as "1:MSVFW32.DLL".
- previous line of previous line of previous line of line containing "[mciavi]" of file "mmdriver.inf" of system folder
- Returns the line 3 lines previous to the one containing the specified phrase in the given file.

- line number of line containing "[mciavi]" of file "mmdriver.inf"
 of system folder
- Returns the line number of the specified line in the given file.
- next line of line containing "[mciavi]" of file "mmdriver.inf" of system folder
- Returns the line after the one containing "[mciavi]", which is a string such as "1:MSVFW32.DLL".
- previous line of previous line of previous line of line containing "[mciavi]" of file "mmdriver.inf" of system folder
- Returns the line 3 lines previous to the one containing the specified phrase in the given file.

Xml Dom Document

These are the Inspectors for the XML Document Object Module (DOM) for specified XML files. XML dom document objects are derived from XML dom node objects.

Creation Methods

Key Phrase	Form	Description
owner document of <xml dom node></xml 	Plain	Returns the name of the document that contains the specified node. Win:5.1
xml document of <file></file>	Plain	Returns the XML Document Object Module (DOM) for the specified file. Win:5.1
xml document of <string></string>	Plain	Returns an XML document object from the given <string>, typically a file name. Win:6.0</string>

Examples

- xml document of file "c:\test.xml" as xml
- Returns the test.xml document in a form like: <?xml version="1.0"?>%0d%0a<a:Books xmlns:a="x-schema:bookschema.xml">%0d%0a%09<a:Book>%0d%0a%09%09<title>Presenting XML</title>%0d%0a%09%09<author>Richard

Light</author>%0d%0a%09</a:Book>%0d%0a</a:Books>%0d%0a.

Xml Dom Node

These are the Inspectors for the XML Document Object Module (DOM) nodes.

Creation Methods

Key Phrase	Form	Description
attribute <integer> of <xml dom="" node=""></xml></integer>	Numbered	Returns the numbered attribute of the specified XML DOM node.
		Win:5.1
attribute <string> of <xml< td=""><td>Named</td><td>Returns the named attribute of the specified node.</td></xml<></string>	Named	Returns the named attribute of the specified node.
dom node>		Win:5.1
attribute of <xml dom="" node=""></xml>	Plain	Returns the attribute(s) of the specified XML DOM node.
		Win:5.1
child node <integer> of</integer>	Numbered	Returns the child node by number.
<pre><xml dom="" node=""></xml></pre>		Win:5.1
child node of <xml dom="" node=""></xml>	Plain	By chaining this Inspector, you can find the child nodes of any given node.
		Win:5.1
first child of <xml dom="" node=""></xml>	Plain	Returns the first child node in the specified node. When applied to an XML DOM file, it returns the first node in the file.
		Win:5.1
last child of <xml dom<br="">node></xml>	Plain	Returns the last child node in the specified node. When applied to an XML DOM file, it returns the last node in the file.
		Win:5.1
next sibling of <xml dom<="" td=""><td>Plain</td><td>Returns the next child node after the current one.</td></xml>	Plain	Returns the next child node after the current one.
node>		Win:5.1
parent node of <xml dom<br="">node></xml>	Plain	Returns the parent node of the specified node. The top of the hierarchy is the document itself, so a phrase such as "exists parent node of xml dom document" will return FALSE.
		Win:5.1
previous sibling of <xml< td=""><td>Plain</td><td>Returns the child node before the one specified.</td></xml<>	Plain	Returns the child node before the one specified.
dom node>		Win:5.1

Key Phrase	Form	Description
select <string> of <xml dom="" node=""></xml></string>	Named	Uses an Xpath string to specify an XML DOM node. For instance, to select all elements BBB which are children of the root element AAA, use: • selects "/AAA/BBB" of xml dom document <string>. Win:6.0</string>
xpath <(string, string)> of	Indexed	The iterated named property xpaths (<namespace>, <query>) provides a way of specifying the namespaces for the query. If the XML document you are querying over uses namespaces, you must use them in the query and use this property. Win:6.0</query></namespace>
xpath <string> of <xml dom="" node=""></xml></string>	Named	Returns an iterated list of matching xml dom nodes, given the xpath query specified by <string>. Win:6.0</string>

Key Phrase	Form	Return Type	Description
<xml dom="" node=""> as text</xml>	Cast	<string></string>	Casts an xml document object module node as text. Win:6.0
<xml dom="" node=""> as xml</xml>	Cast	<string></string>	Casts an xml document object module node as xml. Win:6.0
attribute <integer> of <xml dom="" node=""></xml></integer>	Numbered	<xml dom<br="">node></xml>	Returns the numbered attribute of the specified XML DOM node. Win:5.1
attribute <string> of <xml dom="" node=""></xml></string>	Named	<xml dom<br="">node></xml>	Returns the named attribute of the specified node. Win:5.1
attribute of <xml dom="" node=""></xml>	Plain	<xml dom<br="">node></xml>	Returns the attribute(s) of the specified XML DOM node. Win:5.1
child node <integer> of <xml dom="" node=""></xml></integer>	Numbered	<xml dom<br="">node></xml>	Returns the child node by number. Win:5.1

Key Phrase	Form	Return Type	Description
child node of <xml dom<br="">node></xml>	Plain	<xml dom<br="">node></xml>	By chaining this Inspector, you can find the child nodes of any given node. Win:5.1
first child of <xml dom<br="">node></xml>	Plain	<xml dom<br="">node></xml>	Returns the first child node in the specified node. When applied to an XML DOM file, it returns the first node in the file. Win:5.1
last child of <xml dom="" node=""></xml>	Plain	<xml dom<br="">node></xml>	Returns the last child node in the specified node. When applied to an XML DOM file, it returns the last node in the file. Win:5.1
next sibling of <xml dom node></xml 	Plain	<xml dom<br="">node></xml>	Returns the next child node after the current one. Win:5.1
node name of <xml dom node></xml 	Plain	<string></string>	Returns the name of the specified XML DOM node as a string. Win:5.1
node type of <xml dom<br="">node></xml>	Plain	<integer></integer>	Returns the numeric node type of the specified Document Object Module (DOM) node, 1-12 as shown in the creation Inspector. Win:5.1
node value of <xml dom node></xml 	Plain	<string></string>	Returns the node value, which varies depending on the node type. If the standard interface produces a null type, the Inspector throws NoSuchObject. Win:5.1
owner document of <xml dom="" node=""></xml>	Plain	<xml dom<br="">document></xml>	Returns a document belonging to the owner of the specified node. Win:5.1
parent node of <xml dom node></xml 	Plain	<xml dom<br="">node></xml>	Returns the parent node of the specified node. Win:5.1
previous sibling of <xml dom="" node=""></xml>	Plain	<xml dom<br="">node></xml>	Returns the child node before the one specified. Win:5.1
select <string> of <xml dom node></xml </string>	Named	<xml dom<br="">node></xml>	Uses an Xpath string to specify an XML DOM node. For instance, to select all elements BBB which are children of the root element AAA, use:

Key Phrase	Form	Return Type	Description
			• selects "/AAA/BBB" of xml dom document <string>. Win:6.0</string>
xpath <(string, string)> of <xml dom="" node=""></xml>	Indexed	<xml dom<br="">node></xml>	The iterated named property xpaths (<namespace>, <query>) provides a way of specifying the namespaces for the query. If the XML document you are querying over uses namespaces, you must use them in the query and use this property. Win:6.0</query></namespace>
xpath <string> of <xml dom node></xml </string>	Named	<xml dom<br="">node></xml>	Returns an iterated list of matching xml dom nodes, given the xpath query specified by <string>. Win:6.0</string>

Note

Some of the examples in this section refer to test.xml, a structured file like this:

```
<?xml version ="1.0"?>
  <a:Books xmlns:a="x-schema:bookschema.xml" >
    <a:Book>
    <title>Presenting XML</title>
    <author>Richard Light</author>
    </a:Book>
  </a:Books>
```

- node names of child nodes of child node 1 of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns a list of the names of the children of the first node in the specified document.
- node names of child nodes of child node 1 of last child of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the names of the specified chain of child nodes.
- node name of next sibling of first child of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the name of the second node of the specified file.

- xpath ("xmlns:a='x-schema:bookschema.xml'", "/a:Books/a:Book")
 of xml document of file "c:\test.xml" as xml
- Returns an xml dom node such as <a:Book xmlns:a="x-schema:bookschema.xml">%0d%0a%09<title>Presenting XML</title>%0d%0a%09<author>Richard Light</author>%0d%0a</a:Book>.
- node value of attribute 0 of child node 0 of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the value of the first attribute of the first node of the specified document.
- node value of attribute "xmlns" of child node 1 of xml document
 of (file "icsxml\cmnicfg.xml" of system folder)
- Returns the value of the named attribute (xmlns) of the specified file.
- node names of attributes of child nodes of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the names of the attributes of each node in the specified file.
- node names of child nodes of child node 1 of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns a list of the names of the children of the first node in the specified document.
- node names of child nodes of child node 1 of last child of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the names of the specified chain of child nodes.
- node name of next sibling of first child of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the name of the second node of the specified file.
- node names of child nodes of xml document of file
 "C:\WINDOWS\system32\icsxml\cmnicfg.xml"
- Returns a list of the names of each node in the specified XML document.
- node types of child nodes of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns a list of numeric types for each of the nodes in the specified XML document.
- node value of first child of xml document of file "icsxml\cmnicfg.xml" of system folder
- Returns the value of the first node in the specified file. If the first statement of the file is <xml version="1.0">, for instance, the name would be "xml" and the value would be version="1.0".

Application Usage Summary

To enable these Inspectors, you first need to create the client setting

_BESClient_UsageManager_EnableAppUsageSummary and initialize it to 1. You can also limit the summary to a subset of applications by creating

_BESClient_UsageManager_EnableAppUsageSummaryApps and initializing it to a list of apps to include (or exclude). The value of this setting should look like +:app1:app2:app3: to add apps to the scope, and -:app1:app2: to exclude apps. The case is ignored. For instance, to enable summaries on the Word application, use the value +:winword.exe:.

Creation Methods

Key Phrase	Form	Description
application usage summary	PlainGlobal	Returns an application usage summary containing information including the start time, duration and other statistics on client applications. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
application usage summary <string></string>	NamedGlobal	Returns the usage summary for the application specified in <string>. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</string>

Key Phrase	Form	Return Type	Description
first start time of <application summary="" usage=""></application>	Plain	<time></time>	Returns the start time of the specified application since the computer was configured to track it, regardless of reboots. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
last start time of <application usage<br="">summary></application>	Plain	<time></time>	Returns the last time this specified application was started. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
last time seen of <application usage<br="">summary></application>	Plain	<time></time>	Returns the last time this specified application was seen running. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
name of <application summary="" usage=""></application>	Plain	<string></string>	Returns the names of the applications that are currently enabled for usage summaries. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
running of <application summary="" usage=""></application>	Plain	<boolean></boolean>	Returns TRUE if the specified application is currently running. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
total duration of <application usage<br="">summary></application>	Plain	<time interval></time 	Returns the total elapsed time that the specified application has been running. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
total run count of <application usage<br="">summary></application>	Plain	<integer></integer>	Returns the number of times that the specified application has been run since the client was configured to track it. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

- last start time of application usage summary "winword.exe"
- Returns the date and time Word was last started.

System Objects

These are the keywords available for querying various aspects of the system, including the name and version of the operating sytem. This chapter also covers the keywords used to describe the vendors and types of the various processors that coexist in a typical computer system. Some of these Inspectors are system-specific, but are included to provide cross-platform compatibility.

Bios

On Windows computers, this object returns strings that identify the version of the BIOS. On other computers, all bios expressions will fail gracefully, rather than generating an error.

Creation Methods

Key Phrase	Form	Description
bios		This Windows-only Inspector creates the Bios object. On a non-Windows operating system, it returns FALSE. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

Key Phrase	Form	Return Type	Description
 	Cast	<string></string>	This Windows-only Inspector returns a string that is the concatenation of the BIOS name and date. On a non-Windows operating system, it returns FALSE. Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
date of <bios></bios>	Plain	<string></string>	This Windows-only Inspector returns the date string stored in the bios. This string is formatted as MM/DD/YY. On a non-Windows operating system, it returns FALSE. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
version of <bios></bios>	Plain	<string></string>	This Windows-only Inspector returns the version string stored in the bios. This string may not exist. The format depends upon your BIOS manufacturer. On a non-Windows operating system, it returns FALSE. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

Examples

- date of bios = "09/16/97"
- ▶ Returns TRUE if the BIOS date matches the value provided.
- following text of last "/" of date of bios
- Returns the year of the bios as a string. For "09/07/99" it would return "99".
- preceding text of first "/" of date of bios
- Returns the month of the bios date as a string.
- preceding text of first "/" of following text of first "/" of date of bios
- Returns the day of the bios date as a string.
- version of bios as lowercase contains "phoenix"
- Returns TRUE if the version string contains "phoenix", "PHOENIX" or "Phoenix".

Operating System

The operating system object provides access to several important properties of the system.

Creation Methods

Key Phrase	Form	Description
operating system	PlainGlobal	Creates the global operating system object.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
<pre><operating system=""> as string</operating></pre>	Cast	<string></string>	Returns a string containing the name of the operating system concatenated with the release. Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
boot time of <operating system=""></operating>	Plain	<time></time>	Returns the time of the last restart. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
build number high of <pre><operating system=""></operating></pre>	Plain	<integer></integer>	Numeric representation of the most significant 16 bits of the build number. Win:1.2

Key Phrase	Form	Return Type	Description
build number low of <operating system=""></operating>	Plain	<integer></integer>	Numeric representation of the least significant 16 bits of the build number. Win:1.2
build number of <operating system=""></operating>	Plain	<integer></integer>	Returns the integer build number of the operating system. • Note: On the Macintosh, this returns a string as of BES version 5.1. Win:1.2, Mac:4.1
csd version of <operating system=""></operating>	Plain	<string></string>	Returns the Corrective Service Disk version of the operating system. The szCSDVersion as returned by the GetVersionEx system call. The format varies depending on the installed service packs. For WinNT it contains a string such as "Service Pack 3", for Win95 it can contain a string such as "B".
major version of <operating system=""></operating>	Plain	<integer></integer>	Returns integer which is the dwMajorVersion returned by the GetVersionEx system call. Note that while the WinNT major version tracks the release (3 for 3.51, 4 for 4.0, and 5.0 for Windows 2000, 5.1 for Windows XP), the major version for Win95 and Win98 is always 4. Win:1.2
metric <integer> of <operating system=""></operating></integer>	Numbered	<integer></integer>	This inspector uses the windows GetSystemMetrics API. The integer constants and their meaning are defined by Microsoft. For example, the integer 87 indicates that the operating system is a media center edition. The integer constants are defined in WinUser.h. Win:6.0
minor version of <operating system=""></operating>	Plain	<integer></integer>	Numeric representation of the minor version of the operating system. Win:1.2
name of <operating system=""></operating>	Plain	<string></string>	Returns the name of the operating system as a string. Names might include Win98, WinNT, etc. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
performance counter frequency of <operating system></operating 	Plain	<hertz></hertz>	The rate at which the performance counter is being incremented (per second). Win:1.2
performance counter of <pre><operating system=""></operating></pre>	Plain	<integer></integer>	Retrieves a 64-bit performance counter value. Win:1.2
platform id of <operating system=""></operating>	Plain	<integer></integer>	Returns the dwPlatformId as returned by the GetVersionEx system call. Possible values are 1 (Win95/95) and 2 (WinNT). Win:1.2
product type of <operating system=""></operating>	Plain	<pre><operating product="" system="" type=""></operating></pre>	Returns the product type of the operating system, which includes Workstations, Domain Controllers and Servers. Win:6.0
release of <operating system=""></operating>	Plain	<string></string>	Information about the release of the operating system, typically formatted as <major version="">.<minor version="">. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</minor></major>
service pack major version of <operating system></operating 	Plain	<integer></integer>	Returns the major version number of the current service pack of the specified OS. Win:6.0
service pack minor version of <operating system=""></operating>	Plain	<integer></integer>	Returns the minor version number of the current service pack of the specified OS. Win:6.0
suite mask of <operating system=""></operating>	Plain	<pre><operating mask="" suite="" system=""></operating></pre>	Returns the bit-mapped suite mask for the operating system, which contains further fine-grain information about the version. Win:6.0
uptime of < operating system>	Plain	<time interval></time 	Returns a time interval that represents the elapsed time since the operating system was last booted. • Note: Depending on the Laptop, this interval may not include time spent in hibernation. Win:5.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
x64 of < operating system>	Plain	<boolean></boolean>	Returns TRUE if the current operating system is 64-bits. Win:6.0

- now boot time of operating system > week
- ▶ Returns TRUE if the computer hasn't been rebooted for over a week.
- build number high of operating system = 1027
- Returns TRUE if the high word of the build number = 0403 hex.
- build number low of operating system = 1212
- Returns TRUE if the low word of the build number = 04BC hex.
- build number of operating system = 67306684
- ▶ Returns TRUE if the build number = 040304BC in hexadecimal.
- csd version of the operating system = "B"
- ▶ Returns TRUE on a Win95 System with Corrective Service Disk version = "B".
- major version of operating system = 4
- Returns TRUE if the major version (before the dot) is 4, such as 4.1, 4.2, etc.
- Metric 87 of operating system
- ▶ Returns TRUE if the OS is a Media Center Edition.
- minor version of operating system = 0
- ▶ Returns TRUE if the minor part of a version number (after the dot) is 0, such as 4.0, 5.0, etc.
- name of operating system = "WinXP"
- ▶ Returns TRUE on a WinXP System.
- platform id of operating system = 1
- ▶ Returns TRUE on a Win95 System.
- release of operating system = "OSR2.1"
- Returns TRUE if the Win95 computer is running under operating system release 2.5.

Processor

The processor object is used to identify the number and properties of processors in the system. You can identify the manufacturer of the CPU as well as the speed and other features. Many operating systems provide for multiple processors. You can inspect any one of them by their ordinal number.

Creation Methods

Key Phrase	Form	Description
main processor	PlainGlobal	Creates the object associated with the 'Primary' processor.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
processor	PlainGlobal	Iterates through the processors in the system.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
processor <integer></integer>	NumberedGlobal	Creates the processor object for the number specified. The first processor is processor number 1.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1

Key Phrase	Form	Return Type	Description
brand id of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<integer></integer>	This inspector returns the integer known as the brand id, returned from the assembly language cpuid extended instruction. Win:6.0
brand string of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<string></string>	Returns the vendor-defined brand names for newer processors. Win:1.2
extended family of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<integer></integer>	Integer representing the extended family of CPU. See the notes for the meaning of these numbers. Win:1.2
extended model of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<integer></integer>	Integer representing the extended model of CPU. See the notes for the meaning of these numbers. Win:1.2
family name of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<string></string>	Returns the family name of the CPU, dependent on the type of client computer, for instance Pentium, Sparc, PowerPC G4, etc. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
family of <pre><pre><pre><pre>family of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<integer></integer>	Returns an integer representing the family of the CPU. See the notes for the meaning of these numbers. • Note: As of BES 6.0, this Inspector returns a string on Unix computers.
			Win:1.2, Lin:3.1, Sol:4.1, AIX:4.1
feature mask of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<integer></integer>	Returns the feature flags from the CPUID instruction. The feature mask contains bits that identify extra features the processor may provide such as MMX support or if the Processor ID is enabled on the processor.
4.10	DI	Z:4 :	Win:1.2
model of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<integer></integer>	Returns the model number of the CPU. • Note: On Unix computers, this Inspector returns a <string> as of BES 6.0.</string>
			Win:1.2, Lin:3.1, Sol:4.1, HPUX:4.0, AIX:4.1
speed of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<hertz></hertz>	Returns the speed of the processor in Hertz.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
stepping of <pre><pre>cessor></pre></pre>	Plain	<integer></integer>	Returns the stepping number of the processor. This item can be helpful in identifying very specific processor features or limitations.
type of <pre><pre><pre><pre>type</pre></pre></pre></pre>	Plain	<integer></integer>	Win:1.2, Lin:3.1 Numeric type of the CPU. Values include: • 0 - standard, • 1 - overdrive, • 2 - dual CPU capable, • 3 - reserved. • Note: this Inspector returns a <string> type as of BES version 6.0 on Unix machines and version 5.1 on the Macintosh. Win:1.2, Sol:3.1, AIX:4.1, Mac:4.1</string>
vendor name of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<string></string>	The manufacturer of the CPU. Names include: • GenuineIntel, • AuthenticAMD, • CyrixInstead, • CentaurHauls, • AmbiguousCPU. Win:1.2, Lin:3.1

- number of processors > 1
- ▶ Returns TRUE if the computer is a multi-processor system.
- family name of main processor = "Pentium III"
- Returns TRUE for a computer with a Pentium III cpu.
- bit 18 of feature mask of main processor
- Returns TRUE if the processor ID feature is enabled on this processor.
- speed of main processor < 2000 * MHz
- Returns TRUE is the cpu is slower than 2Ghz.
- vendor name of main processor = "GenuineIntel"
- Returns TRUE for an Intel processor chip.
- number of processors whose (vendor name of it = "AuthenticAMD" or vendor name of it = "CyrixInstead" or vendor name of it = "CentaurHauls") = 1
- ▶ Returns TRUE for a single processor system with the given vendors.

Ram

The ram object is used to inspect properties of the computer's random access memory.

Creation Methods

Key Phrase	Form	Description
ram	PlainGlobal	Creates the object that can be accessed to inspect the amount of ram on the machine.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
random access memory	PlainGlobal	Same as 'ram'.
		Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1

Key Phrase	Form	Return Type	Description
size of <ram></ram>	Plain	<integer></integer>	Returns the number of bytes of random access memory on the current machine.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

- size of ram / (1024 * 1024)
- ▶ Returns the size of RAM in megabytes.

Active Device

On Windows NT systems (including XP and 2K), these Inspectors returns a set of objects corresponding to the active devices on the machine, e.g., modems, graphics cards, printers, etc.

Creation Methods

Key Phrase	Form	Description
active device		Creates a list of all active devices found using the Configuration Manager SetupDiGetClassDevs NT API. The locations of active devices are relative to the Windows Directory. Win:1.2

Key Phrase	Form	Return Type	Description
class of <active device=""></active>	Plain	<string></string>	Returns the name of the class of the active device provided.
			Win:1,2
description of <active device=""></active>	Plain	<string></string>	Returns the description of the active device provided.
			Win:1.2
driver key of <active device=""></active>	Plain	<registry key></registry 	The key identified by adding the value of 'driver key value name of active device' to HKLM\System\CurrentControlSet\Control\Class\.
driver key value name of <active device=""></active>	Plain	<string></string>	Returns the driver key value name of the active device provided. Win:1.2
friendly name of <active device=""></active>	Plain	<string></string>	Returns the friendly name of the active device. Win:1.2

Key Phrase	Form	Return Type	Description
hardware id of <active device=""></active>	Plain	<string></string>	Returns the hardware id of the active device provided.
location information of	Plain	<string></string>	Returns a string containing information about the
<active device=""></active>			bus location of the device. Win:1.2
manufacturer of <active device=""></active>	Plain	<string></string>	Returns the manufactures string of the active device.
			Win:1.2
problem id of <active device=""></active>	Plain	<integer></integer>	Configuration manager defined number describing device installation or use problems. Returned by call to CM_Get_DevInst_Status.
. 1 1	DI :		
service key value name	Plain	<string></string>	Returns the service key value name.
of <active device=""></active>			Win:1.2
status of <active device=""></active>	Plain	<integer></integer>	Configuration manager defined status bits conveying device driver status.
			Win:1.2

- number of active devices
- ▶ Returns the number of active devices as determined by the Configuration Manager.
- exists active device file "system32\ntoskrnl.exe"
- Returns TRUE if ntoskrnl.exe exists in the System32 folder of the Windows folder.
- exists active device file "C:\WINNT\System32\ntoskrnl.exe"
- Returns FALSE because this Inspector path is relative to the Windows directory.
- exists active device whose (class of it = "Display")
- ▶ Returns TRUE if there is an active device named "Display".
- (description of it) of active devices whose (class of it ="Display")
- Provides a list of the descriptions of the active display devices.

- exists service key value name whose (it = "PGPdisk") of active devices
- ▶ Returns TRUE if the designated service key value name exists on this system.

License

These Inspectors are available only through the BigFix Enterprise System. They inspect the properties of the client's BigFix license.

Creation Methods

Key Phrase	Form	Description
client license	PlainGlobal	Creates the global object containing client licensing information.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
common name of clicense>	Plain	<string></string>	Returns the name of the person (such as John Smith) who requested the action site license.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
email address of clicense>	Plain	<string></string>	Returns the email address of the person (such as John_Smith@bigcorp.com) who requested the action site license.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
evaluation of <license></license>	Plain	<boolean></boolean>	Returns TRUE if client is running an evaluation license.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
expiration date of	Plain	<time></time>	Returns date when license will expire.
license>			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
expiration state of clicense>	Plain	<string></string>	Returns a string, one of "Unrestricted", "Grace" or "Restricted".
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
maximum seat count of clicense>	Plain	<integer></integer>	Returns maximum seat count allowed by the license.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
organization of clicense>	Plain	<string></string>	Returns the organization of the person (such as Bigcorp, Inc.) who requested the action site license. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
registrar number of cense>	Plain	<integer></integer>	A unique number assigned to the issuer of the Action Site certificate. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
seat count state of clicense>	Plain	<string></string>	Returns one of "Unrestricted", "Grace" or "Restricted". Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
seat of <license></license>	Plain	<integer></integer>	The license number assigned to the client. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
site number of	Plain	<integer></integer>	A unique number assigned to the Action Site certificate. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1
start date of <license></license>	Plain	<time></time>	The starting date specified for the BigFix license. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1

Local Mssql Database

These Inspectors retrieve the properties of the MS SQL databases on the local machine.

Key Phrase	Form	Description
local mssql database	PlainGlobal	Creates the local MSSQL database objects. Win:1.2
local mssql database <string></string>	NamedGlobal	Creates the local Microsoft SQL (MSSQL) database object identified by the name provided. Win:1.2

Properties

Key Phrase	Form	Return Type	Description
audit level of <local database="" mssql=""></local>	Plain	<integer></integer>	Returns the integer audit level of the MSSQL database. Win:1.2
has blank sa password of <local mssql<br="">database></local>	Plain	<boolean></boolean>	Returns TRUE if the MSSQL database sa account has a blank password. Win:1.2
instance name of <local database="" mssql=""></local>	Plain	<string></string>	Returns the name of the MSSQL database. Win:1.2
login mode of <local database="" mssql=""></local>	Plain	<integer></integer>	Returns the login mode of the MSSQL database. Win:1.2
running of <local mssql<br="">database></local>	Plain	<boolean></boolean>	Returns a boolean indicating if the MSSQL database is running. Win:1.2

Service

Provides access to all services configured on Windows NT, 2K and XP systems. On a non-Windows system, expressions using these objects will fail gracefully instead of generating an error.

Key Phrase	Form	Description
main gather service	PlainGlobal	Returns FALSE. Included for compatibility with Windows Inspectors. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
relay service	PlainGlobal	Returns a service object for the relay component of BES. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
running service	PlainGlobal	Creates objects corresponding to all the running services. Win:1.2
running service <string></string>	NamedGlobal	Creates the running service object for the specified name. Win:1.2

Key Phrase	Form	Description
service	PlainGlobal	Creates objects for all the services.
		Win:1.2
service <string></string>	NamedGlobal	Creates the service object matching the specified name, regardless of its running state. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<service> as string</service>	Cast	<string></string>	Returns a string containing the Service name, Display name, and State of the service.
			Win:1.2
can interact with desktop of <service></service>	Plain	<boolean></boolean>	Indicates the system is configured to allow the service to interact with the desktop.
checkpoint of <service></service>	Plain	<integer></integer>	Service specific value indicating its checkpoint state.
			Win:1.2
display name of	Plain	<string></string>	Returns the display name of the service.
<service></service>			Win:1.2
file of <service></service>	Plain	<file></file>	Returns a file object corresponding to the specified <service>.</service>
			Win:3.0
image path of <service></service>	Plain	<string></string>	Returns the full path to the service executable. Win:6.0
login account of <service></service>	Plain	<string></string>	Returns the login account under which the service is configured to run.
			Win:1.2
service name of	Plain	<string></string>	Returns the name of the service.
<service></service>			Win:1.2
service specific exit	Plain	<integer></integer>	Service specific exit code.
code of <service></service>			Win:1.2

Key Phrase	Form	Return Type	Description
start type of <service></service>	Plain	<string></string>	Returns a string that represents the service startup configuration. It describes when the driver is loaded, which can be one of: • boot: started by OS loader (usually these are needed to launch the OS). • system: started during OS initialization (used by PnP drivers that do device detection after the loader is done). • auto: started by the Service Control Manager (SCM). • demand: started on demand, either by PnP manager when a device is enumerated or by the SCM in response to user demand. • disabled: can't be started (used to temporarily disable driver services). Win:3.0
state of <service></service>	Plain	<string></string>	Returns one of Continuing, Pausing, Paused, Running, Starting, Stopping, Stopped, Unknown. Win:1.2, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
win32 exit code of <service></service>	Plain	<integer></integer>	Service specific Win32 exit code. Win:1.2

- running services
- Returns a list of all the currently running services.
- expand environment string of (image path of service "AudioSrv")
- Returns a path name for the Windows Audio service, such as C:\WINDOWS\System32\svchost.exe -k netsvcs.

Language

A language is composed of a primary language (for example, Swiss) and a sub-language (for example, Swiss German).

Creation Methods

Key Phrase	Form	Description
system locale	PlainGlobal	Determines which bitmap fonts, and OEM, ANSI, and MAC code pages are defaults for the system. This only affects applications that are not fully Unicode. Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
system ui language	PlainGlobal	Determines the default language of menus and dialogs, messages, INF files, and help files. Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
user locale	PlainGlobal	Determines which settings are used for formatting dates, times, currency, and numbers as a default for each user. Also determines the sort order for sorting text. Win:4.1
user ui language	PlainGlobal	Non-MUI: Same as system UI Language. • MUI: Determines the language of menus and dialogs, messages, and help files. Win:4.1

Properties

Key Phrase	Form	Return Type	Description
<language> as string</language>	Cast	<string></string>	Returns the language of the system locale. Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1
primary language of <language></language>	Plain	<pre><primary language=""></primary></pre>	Extracts the primary language identifier from a language. Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1

- system locale as string
- Returns English (United States) if the system locale is US English.

Primary Language

A primary language identifier indicates the written/spoken language that is used by the system. However, to identify the language that is used in a country or region you must combine the primary language with a sub-language identifier to form language identifiers.

Creation Methods

Key Phrase	Form	Description
primary language of language	Plain	Extracts the primary language identifier from a language.
		Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1

Properties

Key Phrase	Form	Return Type	Description
<pre><pre><pre><pre><pre><pre><pre>string</pre></pre></pre></pre></pre></pre></pre>	Cast	<string></string>	Returns the primary language.
string			Win:4.1, Lin:5.1, Sol:5.1, HPUX:5.1, AIX:5.1

- primary language of system locale
- ▶ Returns "English" for an English-language system.

Firewall Objects

These Inspectors retrieve the various firewall settings for the computer.

Firewall

The Firewall Inspectors allow you to view the settings of the Windows Firewall on Windows Clients. By inspecting the firewall properties, you can determine which applications have access to unsolicited traffic and how the firewall is configured for various subsets of your network. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Creation Methods

Key Phrase	Form	Description
firewall	PlainGlobal	Returns the global firewall object for this computer.
		Win:5.1

Key Phrase	Form	Return Type	Description
current profile type of <firewall></firewall>	Plain	<firewall profile="" type=""></firewall>	Returns the current profile type, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_PROFILE_CURRENT. Win:5.1
local policy of <firewall></firewall>	Plain	<firewall policy=""></firewall>	Returns the local policy of the specified firewall. Win:5.1

Firewall Authorized Application

These Inspectors apply to applications that are authorized to exchange traffic through the Windows Firewall. These properties correspond to the INetFwAuthorizedApplication interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Creation Methods

Key Phrase	Form	Description
authorized application of <firewall profile=""></firewall>	Plain	Provides access to the properties of any application that has been authorized to have firewall openings. There are several methods attached to this Inspector, including: Name ProcessImageFileName IpVersion Scope RemoteAddress Enabled. Win:5.1

Key Phrase	Form	Return Type	Description
enabled of <firewall application="" authorized=""></firewall>	Plain	<boolean></boolean>	Returns the contents of the Enabled property for the specified application. Returns TRUE if the settings for this application are currently enabled. Win:5.1
ip version of <firewall application="" authorized=""></firewall>	Plain	<ip version></ip 	Returns the contents of the IpVersion property for the specified application. Win:5.1
name of <firewall application="" authorized=""></firewall>	Plain	<string></string>	Returns the contents of the Friendly Name property for the specified application. Win:5.1
process image file name of < firewall authorized application>	Plain	<string></string>	Returns the contents of the ProcessImageFileName property for the specified application. Win:5.1

Key Phrase	Form	Return Type	Description
remote addresses of <firewall application="" authorized=""></firewall>	Plain	<string></string>	Returns the contents of the RemoteAddresses property for the specified application. This property accesses a set of remote addresses that an application can use to listen for traffic. Win:5.1
scope of <firewall application="" authorized=""></firewall>	Plain	<firewall scope=""></firewall>	Returns the contents of the Scope property for the specified application. This property controls the network scope that a port can listen to. Win:5.1

Firewall Profile

These Inspectors provide access to the firewall profile. These properties correspond to the INetFwProfile interface in the Windows Firewall API. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
current profile of < firewall policy>	Plain	Returns the profile currently in effect for the specified firewall policy. Win:5.1
domain profile of < firewall policy>	Plain	Returns the domain profile of the specified firewall policy. The domain profile settings are used when a computer is connected to a network that contains the organization's domain controllers. Win:5.1
standard profile of < firewall policy>	Plain	Returns the standard profile of the specified firewall policy. The standard profile settings are used when a computer is connected to a network that does not contain the organization's domain controllers. Win:5.1

Key Phrase	Form	Return Type	Description
authorized application of <firewall profile=""></firewall>	Plain	<firewall application="" authorized=""></firewall>	Access to the AuthorizedApplications collection for this profile. This Inspector can be iterated through all the authorized applications in each firewall profile.
	1		Win:5.1
exceptions allowed of firewall profile	Plain	<boolean></boolean>	Returns the property that indicates whether exceptions should be allowed by the firewall.
			Win:6.0
firewall enabled of <pre><firewall profile=""></firewall></pre>	Plain	<boolean></boolean>	Gets the value of the FirewallEnabled setting. Win:5.1
globally open port of <firewall profile=""></firewall>	Plain	<firewall open="" port=""></firewall>	Provides access to the GloballyOpenPorts collection for this profile. This property can be iterated. Win:5.1
icmp settings of <firewall profile=""></firewall>	Plain	<firewall icmp="" settings=""></firewall>	Gets the object governing settings for ICMP packets. Win:5.1
notifications disabled of <firewall profile=""></firewall>	Plain	<boolean></boolean>	Gets the value of the NotificationsDisabled setting, TRUE or FALSE. Win:5.1
remote admin settings of <firewall profile=""></firewall>	Plain	<firewall admin="" remote="" settings=""></firewall>	Gets the object containing the remote administration settings. Win:5.1
service of <firewall profile=""></firewall>	Plain	<firewall service=""></firewall>	Gets the collection containing the services for this profile. This Inspector can be iterated over all services. Win:5.1
type of < firewall profile>	Plain	<firewall profile="" type=""></firewall>	Returns the type of the specified firewall profile: domain, standard or current. Win:5.1

Key Phrase	Form	Return Type	Description
unicast responses to multicast broadcast disabled of <firewall profile></firewall 	Plain	<boolean></boolean>	Gets the value of the UnicastResponsesToMulticastBroadcastDisabled setting. Win:5.1

- firewall enabled of current profile of local policy of firewall
- Verify that the firewall is enabled.

Firewall Profile Type

These Inspectors provide access to the firewall profile type. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Form	Description
PlainGlobal	Retrieves the type of firewall profile that is currently in effect.
	Win:5.1
Plain	Creates a domain firewall profile type for comparison.
	Win:5.1
PlainGlobal	Returns the current profile type, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_PROFILE_DOMAIN.
	Win:5.1
NumberedGlobal	Returns the firewall profile type corresponding to the given integer:
	• 0: Domain • 1: Standard
	• 2: Current.
	Win:5.1
	PlainGlobal Plain Plain

Key Phrase	Form	Description
standard firewall profile type	PlainGlobal	Returns the Standard firewall profile type. Win:5.1
type of <firewall profile=""></firewall>	Plain	Returns the type of the specified firewall profile, corresponding to the Microsoft Windows Firewall enumerated types: • NET_FW_PROFILE_DOMAIN • NET_FW_PROFILE_STANDARD • NET_FW_PROFILE_CURRENT. Win:5.1

Operators

Key phrase	Return Type	Description
<firewall profile="" type=""> =</firewall>	<boolean></boolean>	Compares two firewall policies for equality only.
<firewall profile="" type=""></firewall>		Win:5.1

- current profile type of firewall = domain firewall profile type
- ▶ Returns TRUE if the current profile type is domain.
- current profile type of firewall = standard firewall profile type
- Returns TRUE if the current profile type is standard.

Firewall Policy

These Inspectors provide access to the local, current, domain and standard firewall policies. These properties correspond to the INetFwPolicy interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Creation Methods

Key Phrase	Form	Description
local policy of <firewall></firewall>	Plain	Returns the local policy of the specified firewall.
		Win:5.1

Key Phrase	Form	Return Type	Description
current profile of <firewall policy=""></firewall>	Plain	<firewall profile=""></firewall>	Returns the profile currently in effect for the specified firewall policy. Win:5.1
domain profile of <firewall policy=""></firewall>	Plain	<firewall profile=""></firewall>	Returns the domain profile of the specified firewall policy. The domain profile settings are used when a computer is connected to a network that contains the organization's domain controllers. Win:5.1
standard profile of <firewall policy=""></firewall>	Plain	<firewall profile=""></firewall>	Returns the standard profile of the specified firewall policy. The standard profile settings are used when a computer is connected to a network that does not contain the organization's domain controllers. This Inspector corresponds to the Microsoft Windows Firewall enumerated type NET_FW_PROFILE_STANDARD. Win:5.1

Firewall Scope

These Inspectors provide access to the firewall scope. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
all firewall scope	PlainGlobal	Returns the scope of computers that allow ALL traffic through the firewall, corresponding to the Microsoft enumerated type NET_FW_SCOPE_ALL.
		Win:5.1
custom firewall scope	PlainGlobal	Returns the custom firewall scope, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_SCOPE_CUSTOM.
		Win:5.1
firewall scope <integer></integer>	NumberedGlobal	Returns the scope of addresses from which a port can listen, corresponding to the Microsoft enumerated types: • NET_FW_SCOPE_ALL • NET_FW_SCOPE_LOCAL_SUBNET • NET_FW_SCOPE_CUSTOM.
		Win:5.1
local subnet firewall scope	PlainGlobal	Returns the local subnet firewall scope, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_SCOPE_LOCAL_SUBNET.
		Win:5.1
scope of <firewall application="" authorized=""></firewall>	Plain	Retrieves the contents of the Scope property of the authorized application.
		Win:5.1
scope of <firewall open="" port=""></firewall>	Plain	Retrieves the contents of the Scope property of the open port.
		Win:5.1
scope of <firewall service=""></firewall>	Plain	Retrieves the contents of the Scope property of the firewall service.
		Win:5.1

Operators

Key phrase	Return Type	Description
<firewall scope=""> = <firewall< td=""><td><boolean></boolean></td><td>Compares two firewall scopes for equality only.</td></firewall<></firewall>	<boolean></boolean>	Compares two firewall scopes for equality only.
scope>		Win:5.1

Firewall Open Port

These Inspectors provide access to the properties of a port that has been opened in the Windows Firewall. These properties correspond to the INetFwOpenPort interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Creation Methods

Key Phrase	Form	Description
globally open port of <firewall profile=""></firewall>	Plain	Provides access to the GloballyOpenPorts collection for this profile. Win:5.1
globally open port of <firewall service=""></firewall>	Plain	Returns the collection of globally open ports associated with the firewall service. Win:5.1

Key Phrase	Form	Return Type	Description
built in of <firewall open="" port=""></firewall>	Plain	<boolean></boolean>	Returns the contents of the BuiltIn property of the firewall open port. Win:5.1
enabled of <firewall open="" port=""></firewall>	Plain	<boolean></boolean>	Returns the contents of the Enabled property of the firewall open port. Win:5.1
ip version of <firewall open="" port=""></firewall>	Plain	<ip version></ip 	Returns the IpVersion property of the firewall open port. Win:5.1
name of <firewall open="" port=""></firewall>	Plain	<string></string>	Returns the Name property of the firewall open port. Win:5.1

Key Phrase	Form	Return Type	Description
port of <firewall open<br="">port></firewall>	Plain	<integer></integer>	Returns the Port property of the firewall open port. Win:5.1
protocol of <firewall open="" port=""></firewall>	Plain	<internet protocol=""></internet>	Returns the Protocol property of the firewall open port. Win:5.1
remote addresses of <firewall open="" port=""></firewall>	Plain	<string></string>	Returns the RemoteAddresses property of the firewall open port. Win:5.1
scope of <firewall open="" port=""></firewall>	Plain	<firewall scope=""></firewall>	Returns the Scope property of the firewall open port. Win:5.1

Firewall Service

These Inspectors provide access to the properties of a service that may be authorized to listen through the firewall. These properties correspond to the INetFwService interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
service of <firewall profile=""></firewall>	Plain	Gets the collection containing the services for this profile.
		Win:5.1

Properties

Key Phrase	Form	Return Type	Description
customized of <firewall service=""></firewall>	Plain	<boolean></boolean>	Returns a flag that indicates whether at least one of the ports associated with the service has been customized. Either TRUE or FALSE.
enabled of <firewall service=""></firewall>	Plain	<boolean></boolean>	Returns the enabled flag for the specified firewall service. Win:5.1
globally open port of <firewall service=""></firewall>	Plain	<firewall open="" port=""></firewall>	Returns the collection of globally open ports associated with the firewall service. Win:5.1
ip version of <firewall service=""></firewall>	Plain	<ip version></ip 	Returns the the IP version for the specified firewall service. Win:5.1
name of <firewall service=""></firewall>	Plain	<string></string>	Returns the friendly name of the firewall service. Win:5.1
remote addresses of <firewall service=""></firewall>	Plain	<string></string>	Returns the contents of the RemoteAddresses property for the specified firewall service. Win:5.1
scope of < firewall service>	Plain	<firewall scope=""></firewall>	Retrieves the contents of the Scope property of the firewall service. Win:5.1
type of <firewall service=""></firewall>	Plain	<firewall service="" type=""></firewall>	Returns the type of the specified firewall service (file and print, upnp, remote desktop or none). Win:5.1

- exists globally open port whose (port of it = 52311 and protocol of it = udp and enabled of it) of current profile of local policy of firewall
- ▶ Returns TRUE if the BES Client can receive pings.

Firewall Service Type

These Inspectors provide access to the firewall service type. These properties correspond to the INetFwService. Type interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
file_and_print firewall service type	PlainGlobal	Returns the global service type for file and print sharing, corresponding to the Microsoft enumerated type: NET_FW_SERVICE_FILE_AND_PRINT.
firewall service type <integer></integer>	NumberedGlobal	Returns the firewall service type specified by <integer>, corresponding to the Microsoft Windows Firewall enumerated types: • NET_FW_SERVICE_FILE_AND_PRINT • NET_FW_SERVICE_UPNP • NET_FW_SERVICE_REMOTE_DESKTOP • NET_FW_SERVICE_NONE. Win:5.1</integer>
none firewall service type	PlainGlobal	Returns the no firewall service type, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_SERVICE_NONE. Win:6.0
remote desktop firewall service type	PlainGlobal	Returns the remote desktop firewall service type, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_SERVICE_REMOTE_DESKTOP. Win:5.1
type of <firewall service=""></firewall>	Plain	Returns the type of the specified firewall service, corresponding to the Microsoft Windows Firewall enumerated types: • NET_FW_SERVICE_FILE_AND_PRINT • NET_FW_SERVICE_UPNP • NET_FW_SERVICE_REMOTE_DESKTOP • NET_FW_SERVICE_NONE. Win:5.1

Key Phrase	Form	Description
upnp firewall service type	PlainGlobal	Returns the UPnP (Universal Plug and Play) firewall service type, corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_SERVICE_UPNP. Note: UPnP is not the same as PnP. UPnP is used for network connectivity via TCP/IP to various devices (scanners, printers, etc.). Win:5.1

Operators

Key phrase	Return Type	Description
<firewall service="" type=""> =</firewall>	<boolean></boolean>	Compares two firewall service types for equality only.
<firewall service="" type=""></firewall>		Win:5.1

Examples

- names of services of current profile of local policy of firewall
- Returns the names of the services of the current profile of the firewall's local policy, such as File and Printer Sharing, UPnP Framework & Remote Desktop.

Firewall Icmp Settings

These Inspectors provide access to the settings controlling Internet Control Message Protocol (ICMP) packets. These properties correspond to the INetFwIcmpSettings interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
icmp settings of <firewall profile=""></firewall>	Plain	The Microsoft Windows Firewall INetFwIcmpSettings interface provides access to the settings controlling Internet Control Message Protocol (ICMP) packets. Win:5.1

Key Phrase	Form	Return Type	Description
allow inbound echo request of <firewall icmp settings></firewall 	Plain	<boolean></boolean>	Returns the value of the AllowInboundEchoRequest property. Type common to IPv4 and IPv6.
			Win:5.1
allow inbound mask request of <firewall icmp="" settings=""></firewall>	Plain	<boolean></boolean>	Returns the value of the AllowInboundMaskRequest property. Type common to IPv4 only.
			Win:5.1
allow inbound router request of <firewall icmp="" settings=""></firewall>	Plain	<boolean></boolean>	Returns the value of the AllowInboundRouterRequest property. Type common to IPv4 only.
			Win:5.1
allow inbound timestamp request of <firewall icmp<br="">settings></firewall>	Plain	<boolean></boolean>	Returns the value of the AllowInboundTimestampRequest property. Type common to IPv4 only. Win:5.1
allow outbound destination unreachable of <firewall icmp<br="">settings></firewall>	Plain	<boolean></boolean>	Returns the value of the AllowOutboundDestinationUnreachable property. Type common to IPv4 and IPv6. Win:5.1
allow outbound packet too big of <firewall icmp settings></firewall 	Plain	<boolean></boolean>	Returns the value of the AllowOutboundPacketTooBig property. Type common to IPv6 only. Win:5.1
allow outbound parameter problem of <firewall icmp<br="">settings></firewall>	Plain	<boolean></boolean>	Returns the value of the AllowOutboundParameterProblem property. Type common to IPv4 and IPv6. Win:5.1
allow outbound source quench of <firewall icmp settings></firewall 	Plain	<boolean></boolean>	Returns the value of the AllowOutboundSourceQuench property. Type common to IPv4 only. Win:5.1

Key Phrase	Form	Return Type	Description
allow outbound time exceeded of < firewall icmp settings>	Plain	<boolean></boolean>	Returns the value of the AllowOutboundTimeExceeded property. Type common to IPv4 and IPv6. Win:5.1
allow redirect of <firewall icmp="" settings=""></firewall>	Plain	<boolean></boolean>	Accesses the AllowRedirect property. Type common to IPv4 and IPv6. Win:5.1

Firewall Remote Admin Settings

These Inspectors provide access to the settings that control remote administration. These properties correspond to the INetFwRemoteAdminSettings interface in the Windows Firewall API. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
remote admin settings of <firewall profile=""></firewall>	Plain	Gets the object containing the remote administration settings. These settings include the following properties: • Enabled • IpVersion • RemoteAddresses • Scope. Win:5.1

Internet Protocol

Returns the firewall internet protocol corresponding to the Microsoft enumerated types, either tcp or udp. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Creation Methods

Key Phrase	Form	Description
internet protocol <integer></integer>	NumberedGlobal	Returns the firewall internet protocol specified, either tcp or udp. These correspond to the Microsoft Windows Firewall enumerated types: • NET_FW_IP_PROTOCOL_TCP • NET_FW_IP_PROTOCOL_UDP. Win:5.1
protocol of <firewall open="" port=""></firewall>	Plain	Returns the Protocol property of the firewall open port. Win:5.1
tcp	PlainGlobal	Returns an internet protocol corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_IP_PROTOCOL_TCP. Win:5.1
udp	PlainGlobal	Returns an internet protocol corresponding to the Microsoft Windows Firewall enumerated type: NET_FW_IP_PROTOCOL_UDP. Win:5.1

Operators

Key phrase	Return Type	Description
<internet protocol=""> = <internet protocol=""></internet></internet>	<boolean></boolean>	Compares two firewall internet protocols for equality only.
		Win:5.1

- exists globally open port whose (port of it = 52311 and protocol of it = udp and enabled of it) of current profile of local policy of firewall
- ▶ Returns TRUE if the BES Client can receive pings.

Ip Version

Returns the firewall ip version information corresponding to the Microsoft enumerated types, either ipv4 or ipv6. The Windows Firewall is supported on Windows XP SP2. For more information, search for 'Windows Firewall API' at the msdn site (http://msdn.microsoft.com/).

Key Phrase	Form	Description
any ip version	PlainGlobal	Returns a type corresponding to the Microsoft enumerated value NET_FW_IP_VERSION_ANY.
		Win:5.1
ip version <integer></integer>	NumberedGlobal	Returns the the IP version for the <integer> port corresponding to the Microsoft enumerated types: • NET_FW_IP_VERSION_V4 • NET_FW_IP_VERSION_V6 • NET_FW_IP_VERSION_ANY • NET_FW_IP_VERSION_MAX. Win:5.1</integer>
ip version of <firewall application="" authorized=""></firewall>	Plain	Returns the the IP version for the specified firewall authorized application. Win:5.1
ip version of <firewall open="" port=""></firewall>	Plain	Returns the the IP version for the specified firewall open port. Win:5.1
ip version of <firewall service=""></firewall>	Plain	Returns the the IP version for the specified firewall service. Win:5.1
ipv4	PlainGlobal	Provides a comparison value for a firewall ip version inspector. Win:5.1
ipv6	PlainGlobal	Provides a comparison value for a firewall ip version inspector. Win:5.1

Operators

Key phrase	Return Type	Description
<ip version=""> = <ip version=""></ip></ip>	<boolean></boolean>	Compares two firewall ip versions for equality only.
		Win:5.1

DMI Objects

The Inspectors for the Desktop Management Interface (DMI).

Dmi B32_bit_memory_error_information

Creation Methods

Key Phrase	Form
b32_bit_memory_error_information <integer> of <dmi></dmi></integer>	Numbered
b32_bit_memory_error_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
device_error_address of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_granularity of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_operation of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_resolution of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_type of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
length of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
memory_array_error_address of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>
vendor_syndrome of <dmi b32_bit_memory_error_information></dmi 	Plain	<integer></integer>

Dmi B64_bit_memory_error_information

Creation Methods

Key Phrase	Form
b64_bit_memory_error_information <integer> of <dmi></dmi></integer>	Numbered
b64_bit_memory_error_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
device_error_address of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_granularity of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_operation of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_resolution of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
error_type of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
length of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
memory_array_error_address of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>
vendor_syndrome of <dmi b64_bit_memory_error_information></dmi 	Plain	<integer></integer>

Dmi Base_board_information

Creation Methods

Key Phrase	Form
base_board_information <integer> of <dmi></dmi></integer>	Numbered
base_board_information of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
length of <dmi base_board_information=""></dmi>	Plain	<integer></integer>
manufacturer of <dmi base_board_information=""></dmi>	Plain	<string></string>
product of <dmi base_board_information=""></dmi>	Plain	<string></string>
serial_number of <dmi base_board_information=""></dmi>	Plain	<string></string>
version of <dmi base_board_information=""></dmi>	Plain	<string></string>

Dmi Bios_information

Creation Methods

Key Phrase	Form
bios_information <integer> of <dmi></dmi></integer>	Numbered
bios_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
bios_characteristics of <dmi bios_information=""></dmi>	Plain	<integer></integer>
bios_release_date of <dmi bios_information=""></dmi>	Plain	<string></string>
bios_rom_size of <dmi bios_information=""></dmi>	Plain	<integer></integer>
bios_starting_address_segment of <dmi bios_information=""></dmi>	Plain	<integer></integer>
bios_version of <dmi bios_information=""></dmi>	Plain	<string></string>
length of <dmi bios_information=""></dmi>	Plain	<integer></integer>

Key Phrase	Form	Return Type
vendor of <dmi bios_information=""></dmi>	Plain	<string></string>

Dmi Bios_language_information

Creation Methods

Key Phrase	Form
bios_language_information <integer> of <dmi></dmi></integer>	Numbered
bios_language_information of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
current_language of <dmi bios_language_information=""></dmi>	Plain	<string></string>
flags of <dmi bios_language_information=""></dmi>	Plain	<integer></integer>
installable_languages of <dmi bios_language_information></dmi 	Plain	<integer></integer>
length of <dmi bios_language_information=""></dmi>	Plain	<integer></integer>

Dmi Built_in_pointing_device

Creation Methods

Key Phrase	Form
built_in_pointing_device <integer> of <dmi></dmi></integer>	Numbered
built_in_pointing_device of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
interface of <dmi built_in_pointing_device=""></dmi>	Plain	<integer></integer>
length of <dmi built_in_pointing_device=""></dmi>	Plain	<integer></integer>
number_of_buttons of <dmi built_in_pointing_device=""></dmi>	Plain	<integer></integer>
type of <dmi built_in_pointing_device=""></dmi>	Plain	<integer></integer>

Dmi Cache_information

Creation Methods

Key Phrase	Form
cache_information <integer> of <dmi></dmi></integer>	Numbered
cache_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
associativity of <dmi cache_information=""></dmi>	Plain	<integer></integer>
cache_configuration of <dmi cache_information=""></dmi>	Plain	<integer></integer>
cache_speed of <dmi cache_information=""></dmi>	Plain	<integer></integer>
current_sram_type of <dmi cache_information=""></dmi>	Plain	<integer></integer>
error_correction_type of <dmi cache_information=""></dmi>	Plain	<integer></integer>
installed_size of <dmi cache_information=""></dmi>	Plain	<integer></integer>
length of <dmi cache_information=""></dmi>	Plain	<integer></integer>
maximum_cache_size of <dmi cache_information=""></dmi>	Plain	<integer></integer>
socket_designation of <dmi cache_information=""></dmi>	Plain	<string></string>
supported_sram_type of <dmi cache_information=""></dmi>	Plain	<integer></integer>
system_cache_type of <dmi cache_information=""></dmi>	Plain	<integer></integer>

Dmi Cooling_device

Creation Methods

Key Phrase	Form
cooling_device <integer> of <dmi></dmi></integer>	Numbered
cooling_device of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
cooling_unit_group of <dmi cooling_device=""></dmi>	Plain	<integer></integer>
device_type_and_status of <dmi cooling_device=""></dmi>	Plain	<integer></integer>
length of <dmi cooling_device=""></dmi>	Plain	<integer></integer>
nominal_speed of <dmi cooling_device=""></dmi>	Plain	<integer></integer>
oem_defined of <dmi cooling_device=""></dmi>	Plain	<integer></integer>
temperature_probe_handle of <dmi cooling_device=""></dmi>	Plain	<integer></integer>

Dmi Electrical_current_probe

Creation Methods

Key Phrase	Form
electrical_current_probe <integer> of <dmi></dmi></integer>	Numbered
electrical_current_probe of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
accuracy of <dmi electrical_current_probe=""></dmi>	Plain	<integer></integer>
description of <dmi electrical_current_probe=""></dmi>	Plain	<string></string>
length of <dmi electrical_current_probe=""></dmi>	Plain	<integer></integer>
location_and_status of <dmi electrical_current_probe></dmi 	Plain	<integer></integer>
maximum_value of <dmi< td=""><td>Plain</td><td><integer></integer></td></dmi<>	Plain	<integer></integer>

Key Phrase	Form	Return Type
electrical_current_probe>		
minimum_value of <dmi electrical_current_probe></dmi 	Plain	<integer></integer>
nominal_value of <dmi electrical_current_probe=""></dmi>	Plain	<integer></integer>
oem_defined of <dmi electrical_current_probe=""></dmi>	Plain	<integer></integer>
resolution of <dmi electrical_current_probe=""></dmi>	Plain	<integer></integer>
tolerance of <dmi electrical_current_probe=""></dmi>	Plain	<integer></integer>

Dmi End_of_table

Creation Methods

Key Phrase	Form
end_of_table <integer> of <dmi></dmi></integer>	Numbered
end_of_table of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
length of <dmi end_of_table=""></dmi>	Plain	<integer></integer>

Dmi Group_associations

Creation Methods

Key Phrase	Form
group_associations <integer> of <dmi></dmi></integer>	Numbered
group_associations of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
group_name of <dmi group_associations=""></dmi>	Plain	<string></string>
item_handle of <dmi group_associations=""></dmi>	Plain	<integer></integer>
item_type of <dmi group_associations=""></dmi>	Plain	<integer></integer>

Key Phrase	Form	Return Type
length of <dmi group_associations=""></dmi>	Plain	<integer></integer>

Dmi Hardware_security

Creation Methods

Key Phrase	Form
hardware_security <integer> of <dmi></dmi></integer>	Numbered
hardware_security of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
hardware_security_settings of <dmi hardware_security=""></dmi>	Plain	<integer></integer>
length of <dmi hardware_security=""></dmi>	Plain	<integer></integer>

Dmi Inactive

Creation Methods

Key Phrase	Form
inactive <integer> of <dmi></dmi></integer>	Numbered
inactive of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
length of <dmi inactive=""></dmi>	Plain	<integer></integer>

Dmi Management_device

Key Phrase	Form
management_device <integer> of <dmi></dmi></integer>	Numbered
management_device of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
address of <dmi management_device=""></dmi>	Plain	<integer></integer>
address_type of <dmi management_device=""></dmi>	Plain	<integer></integer>
description of <dmi management_device=""></dmi>	Plain	<string></string>
length of <dmi management_device=""></dmi>	Plain	<integer></integer>
type of <dmi management_device=""></dmi>	Plain	<integer></integer>

Dmi Management_device_component

Creation Methods

Key Phrase	Form
management_device_component <integer> of <dmi></dmi></integer>	Numbered
management_device_component of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
component_handle of <dmi management_device_component=""></dmi>	Plain	<integer></integer>
description of <dmi management_device_component></dmi 	Plain	<string></string>
length of <dmi management_device_component=""></dmi>	Plain	<integer></integer>
management_device_handle of <dmi management_device_component></dmi 	Plain	<integer></integer>
threshold_handle of <dmi management_device_component=""></dmi>	Plain	<integer></integer>

Dmi Management_device_threshold_data

Creation Methods

Key Phrase	Form
management_device_threshold_data <integer> of <dmi></dmi></integer>	Numbered
management_device_threshold_data of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
length of <dmi management_device_threshold_data></dmi 	Plain	<integer></integer>
lower_threshold_critical of <dmi management_device_threshold_data></dmi 	Plain	<integer></integer>
lower_threshold_non_critical of <dmi management_device_threshold_data></dmi 	Plain	<integer></integer>
lower_threshold_non_recoverable of <dmi management_device_threshold_data=""></dmi>	Plain	<integer></integer>
upper_threshold_critical of <dmi management_device_threshold_data=""></dmi>	Plain	<integer></integer>
upper_threshold_non_critical of <dmi management_device_threshold_data=""></dmi>	Plain	<integer></integer>
upper_threshold_non_recoverable of <dmi management_device_threshold_data=""></dmi>	Plain	<integer></integer>

Dmi Memory_array_mapped_address

Key Phrase	Form
memory_array_mapped_address <integer> of <dmi></dmi></integer>	Numbered
memory_array_mapped_address of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
ending_address of <dmi memory_array_mapped_address></dmi 	Plain	<integer></integer>
length of <dmi memory_array_mapped_address=""></dmi>	Plain	<integer></integer>
memory_array_handle of <dmi memory_array_mapped_address=""></dmi>	Plain	<integer></integer>
partition_width of <dmi memory_array_mapped_address></dmi 	Plain	<integer></integer>
starting_address of <dmi memory_array_mapped_address></dmi 	Plain	<integer></integer>

Dmi Memory_controller_information

Creation Methods

Key Phrase	Form
memory_controller_information <integer> of <dmi></dmi></integer>	Numbered
memory_controller_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
current_interleave of <dmi memory_controller_information></dmi 	Plain	<integer></integer>
error_correcting_capability of <dmi memory_controller_information></dmi 	Plain	<integer></integer>
error_detecting_method of <dmi memory_controller_information></dmi 	Plain	<integer></integer>
length of <dmi memory_controller_information=""></dmi>	Plain	<integer></integer>
maximum_memory_module_size of <dmi memory_controller_information=""></dmi>	Plain	<integer></integer>
memory_module_voltage of <dmi memory_controller_information=""></dmi>	Plain	<integer></integer>
number_of_associated_memory_slots of <dmi memory_controller_information=""></dmi>	Plain	<integer></integer>

Key Phrase	Form	Return Type
supported_interleave of <dmi memory_controller_information></dmi 	Plain	<integer></integer>
supported_memory_types of <dmi memory_controller_information></dmi 	Plain	<integer></integer>
supported_speeds of <dmi memory_controller_information></dmi 	Plain	<integer></integer>

Dmi Memory_device

Creation Methods

Key Phrase	Form
memory_device <integer> of <dmi></dmi></integer>	Numbered
memory_device of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
bank_locator of <dmi memory_device=""></dmi>	Plain	<string></string>
data_width of <dmi memory_device=""></dmi>	Plain	<integer></integer>
device_locator of <dmi memory_device=""></dmi>	Plain	<string></string>
device_set of <dmi memory_device=""></dmi>	Plain	<integer></integer>
form_factor of <dmi memory_device=""></dmi>	Plain	<integer></integer>
length of <dmi memory_device=""></dmi>	Plain	<integer></integer>
memory_array_handle of <dmi memory_device=""></dmi>	Plain	<integer></integer>
memory_error_information_handle of <dmi memory_device=""></dmi>	Plain	<integer></integer>
memory_type of <dmi memory_device=""></dmi>	Plain	<integer></integer>
size of <dmi memory_device=""></dmi>	Plain	<integer></integer>
speed of <dmi memory_device=""></dmi>	Plain	<integer></integer>
total_width of <dmi memory_device=""></dmi>	Plain	<integer></integer>
type_detail of <dmi memory_device=""></dmi>	Plain	<integer></integer>

Dmi Memory_device_mapped_address

Creation Methods

Key Phrase	Form
memory_device_mapped_address <integer> of <dmi></dmi></integer>	Numbered
memory_device_mapped_address of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
ending_address of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>
interleave_position of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>
interleaved_data_depth of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>
length of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>
memory_array_mapped_address_handle of <dmi memory_device_mapped_address=""></dmi>	Plain	<integer></integer>
memory_device_handle of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>
partition_row_position of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>
starting_address of <dmi memory_device_mapped_address></dmi 	Plain	<integer></integer>

Dmi Memory_module_information

Creation Methods

Key Phrase	Form
memory_module_information <integer> of <dmi></dmi></integer>	Numbered
memory_module_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
bank_connections of <dmi memory_module_information></dmi 	Plain	<integer></integer>
current_memory_type of <dmi memory_module_information=""></dmi>	Plain	<integer></integer>
current_speed of <dmi memory_module_information></dmi 	Plain	<integer></integer>
enabled_size of <dmi memory_module_information></dmi 	Plain	<integer></integer>
error_status of <dmi memory_module_information></dmi 	Plain	<integer></integer>
installed_size of <dmi memory_module_information></dmi 	Plain	<integer></integer>
length of <dmi memory_module_information=""></dmi>	Plain	<integer></integer>
socket_designation of <dmi memory_module_information></dmi 	Plain	<string></string>

Dmi On_board_devices_information

Creation Methods

Key Phrase	Form
on_board_devices_information <integer> of <dmi></dmi></integer>	Numbered
on_board_devices_information of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
device_description <integer> of <dmi on_board_devices_information=""></dmi></integer>	Numbered	<string></string>
device_description of <dmi on_board_devices_information=""></dmi>	Plain	<string></string>
device_type <integer> of <dmi on_board_devices_information></dmi </integer>	Numbered	<integer></integer>
device_type of <dmi on_board_devices_information=""></dmi>	Plain	<integer></integer>
length of <dmi on_board_devices_information=""></dmi>	Plain	<integer></integer>

Dmi Out_of_band_remote_access

Key Phrase	Form
out_of_band_remote_access <integer> of <dmi></dmi></integer>	Numbered
out_of_band_remote_access of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
connections of <dmi out_of_band_remote_access=""></dmi>	Plain	<integer></integer>
length of <dmi out_of_band_remote_access=""></dmi>	Plain	<integer></integer>
manufacturer_name of <dmi out_of_band_remote_access=""></dmi>	Plain	<string></string>

Dmi Physical_memory_array

Creation Methods

Key Phrase	Form
physical_memory_array <integer> of <dmi></dmi></integer>	Numbered
physical_memory_array of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
length of <dmi physical_memory_array=""></dmi>	Plain	<integer></integer>
location of <dmi physical_memory_array=""></dmi>	Plain	<integer></integer>
maximum_capacity of <dmi physical_memory_array></dmi 	Plain	<integer></integer>
memory_error_correction of <dmi physical_memory_array=""></dmi>	Plain	<integer></integer>
memory_error_information_handle of <dmi physical_memory_array=""></dmi>	Plain	<integer></integer>
number_of_memory_devices of <dmi physical_memory_array></dmi 	Plain	<integer></integer>
use of <dmi physical_memory_array=""></dmi>	Plain	<integer></integer>

Dmi Port_connector_information

Creation Methods

Key Phrase	Form
port_connector_information <integer> of <dmi></dmi></integer>	Numbered
port_connector_information of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
external_connector_type of <dmi port_connector_information=""></dmi>	Plain	<integer></integer>
external_reference_designator of <dmi port_connector_information=""></dmi>	Plain	<string></string>
internal_connector_type of <dmi port_connector_information=""></dmi>	Plain	<integer></integer>
internal_reference_designator of <dmi port_connector_information=""></dmi>	Plain	<string></string>
length of <dmi port_connector_information=""></dmi>	Plain	<integer></integer>
port_type of <dmi port_connector_information=""></dmi>	Plain	<integer></integer>

Dmi Portable_battery

Creation Methods

Key Phrase	Form
portable_battery <integer> of <dmi></dmi></integer>	Numbered
portable_battery of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
design_capacity of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
design_capacity_multiplier of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
design_voltage of <dmi portable_battery=""></dmi>	Plain	<integer></integer>

Key Phrase	Form	Return Type
device_chemistry of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
device_name of <dmi portable_battery=""></dmi>	Plain	<string></string>
length of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
location of <dmi portable_battery=""></dmi>	Plain	<string></string>
manufacture_date of <dmi portable_battery=""></dmi>	Plain	<string></string>
manufacturer of <dmi portable_battery=""></dmi>	Plain	<string></string>
maximum_error_in_battery_data of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
oem_specific of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
sbds_device_chemistry of <dmi portable_battery=""></dmi>	Plain	<string></string>
sbds_manufacture_date of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
sbds_serial_number of <dmi portable_battery=""></dmi>	Plain	<integer></integer>
sbds_version_number of <dmi portable_battery=""></dmi>	Plain	<string></string>
serial_number of <dmi portable_battery=""></dmi>	Plain	<string></string>

Dmi Processor_information

Creation Methods

Key Phrase	Form
processor_information <integer> of <dmi></dmi></integer>	Numbered
processor_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
current_speed of <dmi processor_information=""></dmi>	Plain	<integer></integer>
external_clock of <dmi processor_information=""></dmi>	Plain	<integer></integer>
l1_cache_handle of <dmi processor_information=""></dmi>	Plain	<integer></integer>
12_cache_handle of <dmi processor_information=""></dmi>	Plain	<integer></integer>

Key Phrase	Form	Return Type
13_cache_handle of <dmi processor_information=""></dmi>	Plain	<integer></integer>
length of <dmi processor_information=""></dmi>	Plain	<integer></integer>
max_speed of <dmi processor_information=""></dmi>	Plain	<integer></integer>
processor_family of <dmi processor_information></dmi 	Plain	<integer></integer>
processor_id of <dmi processor_information=""></dmi>	Plain	<integer></integer>
processor_manufacturer of <dmi processor_information=""></dmi>	Plain	<string></string>
processor_type of <dmi processor_information=""></dmi>	Plain	<integer></integer>
processor_upgrade of <dmi processor_information></dmi 	Plain	<integer></integer>
processor_version of <dmi processor_information></dmi 	Plain	<string></string>
socket_designation of <dmi processor_information></dmi 	Plain	<string></string>
status of <dmi processor_information=""></dmi>	Plain	<integer></integer>
voltage of <dmi processor_information=""></dmi>	Plain	<integer></integer>

Dmi System_boot_information

Creation Methods

Key Phrase	Form
system_boot_information <integer> of <dmi></dmi></integer>	Numbered
system_boot_information of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
length of <dmi system_boot_information=""></dmi>	Plain	<integer></integer>

Dmi System_enclosure_or_chassis

Creation Methods

Key Phrase	Form
system_enclosure_or_chassis <integer> of <dmi></dmi></integer>	Numbered
system_enclosure_or_chassis of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
asset_tag_number of <dmi system_enclosure_or_chassis></dmi 	Plain	<string></string>
bootup_state of <dmi system_enclosure_or_chassis></dmi 	Plain	<integer></integer>
length of <dmi system_enclosure_or_chassis=""></dmi>	Plain	<integer></integer>
manufacturer of <dmi system_enclosure_or_chassis></dmi 	Plain	<string></string>
oem_defined of <dmi system_enclosure_or_chassis></dmi 	Plain	<integer></integer>
power_supply_state of <dmi system_enclosure_or_chassis></dmi 	Plain	<integer></integer>
security_status of <dmi system_enclosure_or_chassis></dmi 	Plain	<integer></integer>
serial_number of <dmi system_enclosure_or_chassis></dmi 	Plain	<string></string>
thermal_state of <dmi system_enclosure_or_chassis></dmi 	Plain	<integer></integer>
type of <dmi system_enclosure_or_chassis=""></dmi>	Plain	<integer></integer>
version of <dmi system_enclosure_or_chassis=""></dmi>	Plain	<string></string>

Dmi System_information

Creation Methods

Key Phrase	Form
system_information <integer> of <dmi></dmi></integer>	Numbered
system_information of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
length of <dmi system_information=""></dmi>	Plain	<integer></integer>
manufacturer of <dmi system_information=""></dmi>	Plain	<string></string>
product_name of <dmi system_information=""></dmi>	Plain	<string></string>
serial_number of <dmi system_information=""></dmi>	Plain	<string></string>
version of <dmi system_information=""></dmi>	Plain	<string></string>
wake_up_type of <dmi system_information=""></dmi>	Plain	<integer></integer>

Dmi System_power_controls

Creation Methods

Key Phrase	Form
system_power_controls <integer> of <dmi></dmi></integer>	Numbered
system_power_controls of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
length of <dmi system_power_controls=""></dmi>	Plain	<integer></integer>
next_scheduled_power_on_day_of_month of <dmi system_power_controls=""></dmi>	Plain	<integer></integer>
next_scheduled_power_on_hour of <dmi system_power_controls></dmi 	Plain	<integer></integer>
next_scheduled_power_on_minute of <dmi system_power_controls></dmi 	Plain	<integer></integer>

Key Phrase	Form	Return Type
next_scheduled_power_on_month of <dmi system_power_controls></dmi 	Plain	<integer></integer>
next_scheduled_power_on_second of <dmi system_power_controls></dmi 	Plain	<integer></integer>

Dmi System_reset

Creation Methods

Key Phrase	Form
system_reset <integer> of <dmi></dmi></integer>	Numbered
system_reset of <dmi></dmi>	Plain

Properties

Key Phrase	Form	Return Type
capabilities of <dmi system_reset=""></dmi>	Plain	<integer></integer>
length of <dmi system_reset=""></dmi>	Plain	<integer></integer>
reset_count of <dmi system_reset=""></dmi>	Plain	<integer></integer>
reset_limit of <dmi system_reset=""></dmi>	Plain	<integer></integer>
timeout of <dmi system_reset=""></dmi>	Plain	<integer></integer>
timer_interval of <dmi system_reset=""></dmi>	Plain	<integer></integer>

Dmi System_slots

Creation Methods

Key Phrase	Form
system_slots <integer> of <dmi></dmi></integer>	Numbered
system_slots of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
current_usage of <dmi system_slots=""></dmi>	Plain	<integer></integer>

Key Phrase	Form	Return Type
length of <dmi system_slots=""></dmi>	Plain	<integer></integer>
slot_characteristics_1 of <dmi system_slots=""></dmi>	Plain	<integer></integer>
slot_characteristics_2 of <dmi system_slots=""></dmi>	Plain	<integer></integer>
slot_data_bus_width of <dmi system_slots=""></dmi>	Plain	<integer></integer>
slot_designation of <dmi system_slots=""></dmi>	Plain	<string></string>
slot_id of <dmi system_slots=""></dmi>	Plain	<integer></integer>
slot_length of <dmi system_slots=""></dmi>	Plain	<integer></integer>
slot_type of <dmi system_slots=""></dmi>	Plain	<integer></integer>

Dmi Temperature_probe

Creation Methods

Key Phrase	Form
temperature_probe <integer> of <dmi></dmi></integer>	Numbered
temperature_probe of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
accuracy of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
description of <dmi temperature_probe=""></dmi>	Plain	<string></string>
length of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
location_and_status of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
maximum_value of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
minimum_value of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
nominal_value of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
oem_defined of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
resolution of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>
tolerance of <dmi temperature_probe=""></dmi>	Plain	<integer></integer>

Dmi Voltage_probe

Creation Methods

Key Phrase	Form
voltage_probe <integer> of <dmi></dmi></integer>	Numbered
voltage_probe of <dmi></dmi>	Plain

Key Phrase	Form	Return Type
accuracy of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
description of <dmi voltage_probe=""></dmi>	Plain	<string></string>
length of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
location_and_status of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
maximum_value of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
minimum_value of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
nominal_value of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
oem_defined of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
resolution of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>
tolerance of <dmi voltage_probe=""></dmi>	Plain	<integer></integer>

WMI Objects

The Inspectors for Windows Management Instrumentation (WMI).

Wmi

A wmi object provides access to the WMI (Windows Management Interface) query facility. This object provides access to an enormous amount of configuration data.

Creation Methods

Key Phrase	Form	Description
full wmi <string></string>	NamedGlobal	Returns a wmi object which can retrieve all values, including system values. Win:2.0
wmi	PlainGlobal	Returns the wmi object corresponding to the "root\cimv2" namespace. Win:2.0
wmi <string></string>	NamedGlobal	Returns the wmi object corresponding to the namespace string provided. Win:2.0

Key Phrase	Form	Return Type	Description
select <string> of <wmi></wmi></string>	Named	<wmi select></wmi 	Returns the wmi select whose name matches the string provided. Win:2.0
select object <string> of <wmi></wmi></string>	Named	<wmi object></wmi 	Returns the desired property (specified by <string>) from the given wmi object. Win:6.0</string>

Wmi Select

A value returned as a result of a WMI select query. Be aware that microsoft moves their web content around from time to time, but right now you can find some good references at:http://msdn.microsoft.com/library/en-us/wmisdk/wmi/wmi_classes.asp. Please read the inspector documentation for accessing other 'namespaces' of the wmi. To get the asset tag from a dell, use: Q: string value of select "SerialNumber from Win32_systemenclosure" of wmi.

Key Phrase	Form	Description
property <string> of <wmi object=""></wmi></string>	Named	Returns the Inspector properties of the form <string> of <wmi object="">.</wmi></string>
property of /wmi object>	Plain	Deturns the Inspector properties of the specified wmi
property of <wmi object=""></wmi>	Piain	Returns the Inspector properties of the specified wmi object.
		Win:6.0
select <string> of <wmi></wmi></string>	Named	Returns the wmi select whose name matches the string provided.
		Win:2.0

Note

Here are a few other examples of using the wmi Inspectors. Each of the examples below hands back dozens of settings:

- Q: selects "* from Win32 ComputerSystem" of wmi
- Q: selects "* from win32 keyboard" of wmi
- Q: selects "* from win32 CDROMDrive" of wmi
- Q: selects "* from win32 DiskDrive" of wmi
- Q: selects "* from win32 BIOS" of wmi
- Q: selects "* from win32 CacheMemory" of wmi
- Q: selects "* from win32 DMIChannel" of wmi
- Q: selects "* from win32 FloppyController" of wmi
- Q: selects "* from win32 IDEController" of wmi
- Q: selects "* from win32_IRQResource" of wmi
- Q: selects "* from win32_MemoryDevice" of wmi
- Q: selects "* from win32 MotherboardDevice" of wmi
- Q: selects "* from win32_ParallelPort" of wmi
- Q: selects "* from Win32_PNPDevice" of wmi
- Q: selects "* from win32 Processor" of wmi
- Q: selects "* from win32_SerialPort" of wmi
- Q: selects "* from win32 SoundDevice" of wmi
- Q: selects "* from win32 NetworkAdapter" of wmi
- Q: selects "* from win32 NetworkAdapterSetting" of wmi
- Q: selects "* from win32 Battery" of wmi
- Q: selects "* from win32 PrinterPrinterDriver" of wmi
- Q: selects "* from win32 PrinterSetting" of wmi

Key Phrase	Form	Return Type	Description
<wmi select=""> as string</wmi>	Cast	<string></string>	Returns a string formatted as <name>=<value> for the wmi select. Win:2.0</value></name>
boolean value <integer> of <wmi select></wmi </integer>	Numbered	<boolean></boolean>	Returns the WMI value cast to boolean. Win:4.1
boolean value of <wmi select=""></wmi>	Plain	<boolean></boolean>	Returns the boolean value of a <wmi select=""> object (exists only for boolean objects). Win:2.0</wmi>
integer value <integer> of <wmi select=""></wmi></integer>	Numbered	<integer></integer>	Returns the WMI value cast to an integer. Win:4.1

Key Phrase	Form	Return Type	Description
integer value of <wmi select=""></wmi>	Plain	<integer></integer>	Returns the integer value of a <wmi select=""> object whose value is of type integer.</wmi>
			Win:2.0
name of <wmi select=""></wmi>	Plain	<string></string>	Returns the name of the wmi select.
			Win:2.0
string value <integer> of <wmi select=""></wmi></integer>	Numbered	<string></string>	Returns the numbered string of a WMI array value.
			Win:4.1
string value of <wmi< td=""><td>Plain</td><td><string></string></td><td>Returns the string value of the wmi select.</td></wmi<>	Plain	<string></string>	Returns the string value of the wmi select.
select>			Win:2.0
time value <integer> of <wmi select=""></wmi></integer>	Numbered	<time></time>	Returns the numbered time of a WMI array value.
			Win:4.1
time value of <wmi select=""></wmi>	Plain	<time></time>	Returns the time value of the wmi select whose value is of type time.
			Win:2.0
type of <wmi select=""></wmi>	Plain	<integer></integer>	Returns the type of data stored in the wmi select value. Possible values are: • 8 (VT_BSTR)
			• 11 (VT_BOOL)
			• 22 (VT_INT)
			• (See MSDN documentation for the meaning of additional values.).
			Win:2.0

Wmi Object

These Inspectors allow you to analyze the properties of WMI objects.

Creation Methods

Key Phrase	Form	Description
select object <string> of <wmi></wmi></string>	Named	Returns the desired property (specified by <string>) from the given wmi object.</string>
		Win:6.0

Properties

Key Phrase	Form	Return Type	Description
<pre><wmi object=""> as string</wmi></pre>	Cast	<string></string>	Casts the given wmi object as a string type. Win:6.0
property <string> of <wmi object=""></wmi></string>	Named	<wmi select></wmi 	Returns the Inspector properties of the form <string> of <wmi object="">. Win:6.0</wmi></string>
property of <wmi object=""></wmi>	Plain	<wmi select></wmi 	Returns the Inspector properties of the specified wmi object. Win:6.0

Examples

- Property "SerialNumber" of select object "* from win32_operatingsystem" of wmi
- Returns serial number of the selected wmi object, in a form like SerialNumber=76487-OEM-0012903-00925.
- properties "select" of type "wmi"
- ▶ Returns Inspector properties of the form "select of <wmi>", in this case,
- selects <string> of <wmi>: wmi select.

Site Objects

These keywords query the properties of Fixlet sites to which the client is subscribed.

Site

A Site object is provided to access properties of Fixlet sites.

Creation Methods

Key Phrase	Form	Description
current site	PlainGlobal	Creates the site object corresponding to the site that provided the current Fixlet.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
site	PlainGlobal	Iterates through all the sites.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
site <string></string>	NamedGlobal	Creates the site object that corresponds to the name provided. The name is interpreted as a site locator and is therefore a URL.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
client folder of <site></site>	Plain	<folder></folder>	The folder containing the site content on the client machine. Site content is gathered into this location.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
fixlet of <site></site>	Plain	<fixlet></fixlet>	Iterates through the Fixlet messages of the specified site.
			Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0
gather schedule authority of <site></site>	Plain	<string></string>	Returns a string corresponding to the authority of the site schedule, e.g.: Publisher, Custom, Manual or Disabled. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
gather schedule time interval of <site></site>	Plain	<time interval=""></time>	Returns the time interval between automatic gathering of site content. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
group <integer> of <site></site></integer>	Numbered	<site group></site 	Returns an object corresponding to the numbered group of the specified site.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
last gather time of <site></site>	Plain	<time></time>	Returns the time of last successful gathering from the site.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
masthead of <site></site>	Plain	<file></file>	Each site has a masthead, and the masthead is saved into the site data folder upon successful creation. This property returns a file object that corresponds to the copy in the site data folder.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
name of <site></site>	Plain	<string></string>	The name of the site.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
relevant fixlet of <site></site>	Plain	<fixlet></fixlet>	Iterates through the Relevant Fixlet messages for the specified site.
			Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0
setting <string> of <site></site></string>	Named	<setting></setting>	Returns the setting whose name matches the string provided from the Fixlet site settings.
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
setting of <site></site>	Plain	<setting></setting>	Returns one or more settings from the site settings.
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
site tag of <site></site>	Plain	<string></string>	Returns the last component of the specified site's url, eg. 'actionsite', 'enteprisesecurity', etc.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
subscribe time of <site></site>	Plain	<time></time>	Returns the time that the current machine began subscribing to the site.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
type of <site></site>	Plain	<string></string>	Returns one of the following 4 literal strings: • Master Action Site • Operator Site • Custom Site • Fixlet Site. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
url of <site></site>	Plain	<string></string>	Returns the Locator found in the masthead. A site locator is used to synchronize with the site. It normally contains the URL of a remote file system folder, or the URL of a cgi-bin program that provides a remote directory listing of the site. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
version of <site></site>	Plain	<integer></integer>	Returns the version number of the site content.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Note

The 'as string' property yields a string formatted with the site name.

Examples

- exists site "actionsite"
- ▶ TRUE when the action site exists on the target machine.
- exists file "siteicon.bmp" of client folder of current site
- ▶ TRUE if the specified file exists in the client folder.
- last gather time of current site > now 30 * day
- Return TRUE if it has been over 30 days since last gathering, or synchronizing, with the site.
- last gather time of current site < time "4 Aug 1997 01:00 pdt"</p>
- Returns TRUE if the site was last synchronized before the specified date.
- modification time of masthead of current site < time "4 Aug 1997 01:00 pdt"</p>
- Returns TRUE if the masthead of the current site is older than the specified date.

Site Group

These Inspectors return information on the automatic groups defined for a given site.

Creation Methods

Key Phrase	Form	Description
group <integer> of <site></site></integer>	Numbered	Returns an object corresponding to the numbered group of the specified site.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Properties

Key Phrase	Form	Return Type	Description
id of <site group=""></site>	Plain	<integer></integer>	Returns the numeric ID of the specified site group. This is the number assigned to an automatic group when it is first defined. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
member of <site group=""></site>	Plain	<boolean></boolean>	Returns TRUE if the current computer is a member of the specified group. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Fixlet

These Inspectors can provide important information about the Fixlet messages at any site. These Inspectors only work in the context of property evaluation, not Fixlet evaluation.

Key Phrase	Form	Description
fixlet of <site></site>	Plain	This Inspector iterates over all the Fixlet messages in the given site.
		Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0
relevant fixlet of <site></site>	Plain	Iterates over all the relevant Fixlet messages in the specified site.
		Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0

Key Phrase	Form	Return Type	Description
header <string> of <fixlet></fixlet></string>	Named	<fixlet_header></fixlet_header>	Returns the named header (case insensitive) of the specified Fixlet message. Fixlet headers are name:value pairs. Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0
header of <fixlet></fixlet>	Plain	<fixlet_header></fixlet_header>	Iterates over all the headers of the Fixlet message. Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0
id of <fixlet></fixlet>	Plain	<integer></integer>	Returns the ID number of the specified Fixlet message. Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0
relevance of <fixlet></fixlet>	Plain	<boolean></boolean>	Returns a boolean TRUE or False, depending on the Relevance of the specified Fixlet message. Win:5.0, Lin:5.0, Sol:5.0, HPUX:5.0, AIX:5.0

Client Objects

These Inspectors retrieve information about the organization of the BES Client computers.

Client

The client object allows access to properties of the client application hosting the relevance evaluation, typically a BigFix program. In addition, the client maintains a collection of settings with both name and value properties that are inspectable using the client object. Client objects are derived from file objects, so they share all the file properties.

Creation Methods

Key Phrase	Form	Description
client	PlainGlobal	Returns the client object corresponding to the BigFix application evaluating the current relevance expression. Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
administrator <string> of <client></client></string>	Named	<setting></setting>	If the administrator named in the <string> is enabled on the given <cli>client> computer, this property returns a setting with the given name and the value 'allow.' For instance, if the name of the administrator is joe_admin, then the client would return a setting object with the name 'joe_admin' and a value of 'allow'. Casting this as a string would return 'joe_admin=allow'. Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1</cli></string>
administrator of <client></client>	Plain	<setting></setting>	Creates a setting object corresponding to the administrators of the given <cli>client>. Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1</cli>
setting <string> of <cli>ent></cli></string>	Named	<setting></setting>	Returns a client setting whose name matches the string provided from the client settings. Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
setting of <client></client>	Plain	<setting></setting>	Returns one or more settings from the client settings.
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Setting

A setting is a simple object with name and value properties. It is a property of a client, or a property of a site. Settings of a site are assigned by site authors. Settings of the client are assigned by the BES console operator.

Key Phrase	Form	Description
administrator <string> of <cli>client></cli></string>	Named	Creates a setting with the given name on the given <cli>client</cli> > computer.
		Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
administrator of <client></client>	Plain	Creates a setting object consisting of the administrator for the given <cli>client> computer.</cli>
		Win:3.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1
setting <string> of <client></client></string>	Named	Returns the setting whose name matches the string provided from the client settings.
		Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
setting <string> of <site></site></string>	Named	Returns the setting whose name matches the string provided from the site settings.
		Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
setting of <client></client>	Plain	Returns one or more settings from the client settings.
		Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
setting of <site></site>	Plain	Returns one or more settings from the site settings.
		Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
<setting> as string</setting>	Cast	<string></string>	Returns a string formatted as <name>=<value> for the setting.</value></name>
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
effective date of <setting></setting>	Plain	<time></time>	Returns the date when the setting was last modified.
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
name of <setting></setting>	Plain	<string></string>	Returns the name of the setting.
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
value of <setting></setting>	Plain	<string></string>	Returns the value of the setting.
			Win:2.0, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Examples

- names of settings of site "actionsite"
- ▶ Returns the names of all the settings of the site named "actionsite".

Selected Server

The BES Server or BES Relay to which the BigFix agent or client reports.

Key Phrase	Form	Description
selected server	PlainGlobal	The BES Server or BES Relay to which the agent reports. Returned as the "selected server" type.
		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
competition size of <selected server=""></selected>	Plain	<integer></integer>	The number of servers in the competition from which this server was selected.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
competition weight of <selected server=""></selected>	Plain	<integer></integer>	The total of the weights of the servers in the competition from which this server was selected.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
distance of <selected server=""></selected>	Plain	<integer range=""></integer>	The distance, in IP gateway hops, to the server. Among servers with the same priority, closer servers are preferred. Returns an integer range, since the exact distance may not be known.
	1		Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
gateway address <integer> of <selected server=""></selected></integer>	Numbered	<ipv4 address></ipv4 	The ip address of a gateway between the agent and the selected server at the given distance from the agent, if known.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
gateway address of <selected server=""></selected>	Plain	<ipv4 address=""></ipv4>	All known ip addresses of gateways between the agent and the selected server.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
ip address of <selected server=""></selected>	Plain	<ipv4 address=""></ipv4>	The ip address to which reports are sent. Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
name of <selected< td=""><td>Plain</td><td><string></string></td><td>The DNS name of the server, if known.</td></selected<>	Plain	<string></string>	The DNS name of the server, if known.
server>			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
port number of	Plain	<integer></integer>	The port number to which reports are sent.
<selected server=""></selected>			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
priority of <selected server=""></selected>	Plain	<integer></integer>	The priority assigned to the server by the BES console. Servers with low priorities are preferred to servers with high priority.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
weight of <selected server=""></selected>	Plain	<integer></integer>	The weight assigned to the server by the BES console. Servers with the same priority and approximate distance compete to be chosen; servers with higher weights are more likely to be chosen.
			Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Operating System Product Type

These Inspectors return the product type of the operating system, which includes Workstations, Domain Controllers and Servers.

Creation Methods

Key Phrase	Form	Description
nt domain controller product type	PlainGlobal	Returns an object corresponding to OS product type of nt domain controller. Win:6.0
nt server product type	PlainGlobal	Returns an object corresponding to OS product type of nt server. Win:6.0
nt workstation product type	PlainGlobal	Returns an object corresponding to OS product type of nt workstation. Win:6.0
operating system product type <integer></integer>	NumberedGlobal	Returns an object corresponding to the numbered OS product type. Win:6.0
product type of <operating system=""></operating>	Plain	Returns the product type of the operating system, which includes Workstations, Domain Controllers and Servers. Win:6.0

Operators

Key phrase	Return Type	Description
<pre><operating product="" system="" type=""> = <operating pre="" system<=""></operating></operating></pre>		Compare two operating system product types for equality.
product type>		Win:6.0

Operating System Suite Mask

These Inspectors provide detailed information about the operating system version.

Creation Methods

Key Phrase	Form	Description
suite mask of < operating system>	Plain	Returns the bit-mapped suite mask for the operating system, which contains further fine-grain information about the version. Win:6.0

Examples

- suite mask of operating system
- Returns the suite mask for the operating system.

Local Group

These Inspectors return information on local groups as defined on the local BES Client computer using the windows NetLocalGroupEnum API, one of Windows Network Management Functions. Local groups have names, comments, members and security IDs.

Key Phrase	Form	Description
local group	PlainGlobal	Returns local groups defined on the local computer using the windows NetLocalGroupEnum API. Several local groups are defined simply by a default operating system install, and have names such as Administrators, Backup Operators, Guests, Network Configuration Operators, Power users, Users, etc. Some software applications also define local groups in order to help manage protections. Win:6.0
local group <string></string>	NamedGlobal	Returns a local group corresponding to the given name, such as Adminstrator, Guests, etc. Win:6.0

Key Phrase	Form	Return Type	Description
comment of <local group=""></local>	Plain	<string></string>	Returns a string containing a comment associated with the specfied local group (Administrator, Guest, Users). Win:6.0
member of <local group=""></local>	Plain	<local group member></local 	Returns a list of the members of the specified local group. Win:6.0
name of <local group=""></local>	Plain	<string></string>	Returns a list if the names of the local group. Win:6.0

Examples

- sids of members of local group "Administrators"
- Returns a list of the member security IDs of the local administrators group.
- comment of local group "Administrators"
- ▶ Returns the string "Administrators have complete and unrestricted access to the computer/domain".
- names of local groups
- Returns a list of the local groups, such as Administrators, Guests, Users, etc.

Local Group Member

These Inspectors return information (such as security IDs) on members of local groups as defined on the local BES Client computer using the windows NetLocalGroupEnum API, one of Windows Network Management Functions.

Key Phrase	Form	Description
member of <local group=""></local>	Plain	Returns an object corresponding to a member of the specified local group.
		Win:6.0

Key Phrase	Form	Return Type	Description
<local group="" member=""> as string</local>	Cast	<string></string>	Casts a local group member as a string. Win:6.0
sid of <local group<br="">member></local>	Plain	<security identifier=""></security>	Returns the security ID for the specified local group member. Win:6.0

Examples

- members of local group "Administrators"
- ▶ Returns a list of the members of the local administration group.

Event Log

These Inspectors return information about the specified Windows Event logs, including the System, Security and the Application log.

Key Phrase	Form	Description
application event log	PlainGlobal	Returns an object corresponding to an application event log, one of the event logs created by most Windows systems.
11 41 5	N 101 1 1	
event log <string></string>	NamedGlobal	Returns the event log object with the specified name.
		Win:6.0
security event log	PlainGlobal	Returns an event log object for the security event log.
		Win:6.0
system event log	PlainGlobal	Returns a system event log, which records OS or component events, such as the failure of a bootup service.
		Win:6.0

Key Phrase	Form	Return Type	Description
oldest record number of <event log=""></event>	Plain	<integer></integer>	Returns an integer corresponding to the oldest record number on the Client computer's event log. Win:6.0
record <integer> of <event log=""></event></integer>	Numbered	<event log="" record=""></event>	Returns the nth record corresponding to the specified event log. Win:6.0
record count of <event log=""></event>	Plain	<integer></integer>	Returns the record count for the specified event log. Win:6.0
record of <event log=""></event>	Plain	<event log<br="">record></event>	Returns the record corresponding to the specified event log, for instance the application or system event log. Win:6.0

Examples

- exists application event log
- ▶ Returns TRUE if the application event log exists on this computer.
- exists event log "Application"
- ▶ Returns TRUE if the application event log exists on this computer.
- oldest record number of application event log
- Returns the number of the oldest record in the application event log. This is not the same as the record count.
- exists record (oldest record number of it) of application event log
- ▶ Returns TRUE if there is an oldest record in the application event log.
- record count of application event log
- Returns the current record count of the application event log.

Event Log Record

These Inspectors return individual records from the Windows Event logs, which record information about operating system events.

Creation Methods

Key Phrase	Form	Description
record <integer> of <event log=""></event></integer>	Numbered	Returns the nth record corresponding to the specified event log. Win:6.0
record of <event log=""></event>	Plain	Retrieves the record from the event log. Win:6.0

Key Phrase	Form	Return Type	Description
category of <event log="" record=""></event>	Plain	<integer></integer>	Returns the category of the specified event log, which is sometimes used to further describe the related action. Win:6.0
computer of <event log="" record=""></event>	Plain	<string></string>	Returns the name of the computer that has entered a record in the specified log. Win:6.0
description of <event log="" record=""></event>	Plain	<string></string>	Returns a human-readable description of the specified event log record. Win:6.0
event id of <event log="" record=""></event>	Plain	<integer></integer>	Returns an integer corresponding to the ID of the specified record in the Client computer's event log. Win:6.0
event type of <event log="" record=""></event>	Plain	<pre><event event="" log="" type=""></event></pre>	Returns the type of the specified event log record, such as error, warning, information, etc. Win:6.0
length of <event log="" record=""></event>	Plain	<integer></integer>	Returns the length of the specified record. This is not the same as the length of the description. Win:6.0

Key Phrase	Form	Return Type	Description
record number of <event log="" record=""></event>	Plain	<integer></integer>	Returns the integer value of the record number corresponding to the specified event log record. Win:6.0
source of <event log="" record=""></event>	Plain	<string></string>	Returns the source name (from the application, service, or component that logged the event) of the specified event log record. Win:6.0
time generated of <event log="" record=""></event>	Plain	<time></time>	Returns the time that the specified event log record was generated. Win:6.0
time written of <event log="" record=""></event>	Plain	<time></time>	Returns the time that the specified event record was written to the log. Win:6.0
user sid of <event log="" record=""></event>	Plain	<security identifier=""></security>	Returns the user security ID for the specified record in the event log. Win:6.0

- lacktriangle exists record (oldest record number of it) of application event log
- Returns TRUE if there is an oldest record in the application event log.
- exists records of application event log
- ▶ Returns TRUE if the application event log contains any records.
- category of record (oldest record number of it) of application event log
- Returns the category of the oldest record of the application event log.
- computer of record (oldest record number of it) of application event log
- Returns the name of the computer that logged the last entry in the application event log.
- description of record (oldest record number of it) of application event log
- Returns a description of the oldest record in the application event log. Typically includes a description of the programs and what happened for each entry in the event log.

- event id of record (oldest record number of it) of application event log
- Returns the id number of the oldest record in the application event log.
- length of record (oldest record number of it) of application event log
- Returns the length of the specified record in the application event log.
- record number of record (oldest record number of it) of application event log
- Returns the integer record number corresponding to the oldest record in the application event log.
- source of record (oldest record number of it) of application event log
- Returns name of the source of the oldest record in the application event log.
- time generated of record (oldest record number of it) of application event log
- Returns the time (in day, month, year, time, zone format) that the oldest record in the application event log was generated.
- time written of record (oldest record number of it) of application event log
- Returns the time (in day, month, year, time, zone format) that the oldest record in the application event log was written.
- user sid of record (oldest record number of it) of application event log
- Returns the user security ID for the oldest record in the application event log, for instance NT AUTHORITY\SYSTEM.

Event Log Event Type

These Inspectors return information about the types of Windows Event log entries, which record various operating system events including errors, warnings and general information.

Creation Methods

Key Phrase	Form	Description
audit failure event log event type	PlainGlobal	Returns an object corresponding to an audit failure an event related to the failed execution of an action. Win:6.0
audit success event log event type	PlainGlobal	Returns an object corresponding to an audit success in an event log. Win:6.0
error event log event type	PlainGlobal	Returns an object corresponding to an error event in the log, such as the failure of a service to start. Win:6.0
event log event type <integer></integer>	NumberedGlobal	Returns an event type object corresponding to the specified number. The enumerated types include: • 1: error event • 2: warning event • 4: information event • 8: audit success event • 16: audit failure event. Win:6.0
event type of <event log="" record=""></event>	Plain	Returns the event type of the specified record from the event log. Win:6.0
information event log event type	PlainGlobal	Returns an object corresponding to an information event An informational event which is generally related to a successful action. Win:6.0
warning event log event type	PlainGlobal	Returns an object corresponding to a warning in the event log. Warnings can be used to prevent future system problems. Win:6.0

Operators

Key phrase	Return Type	Description
<event event="" log="" type=""> =</event>	<boolean></boolean>	Compare two event log event types for equality.
<pre><event event="" log="" type=""></event></pre>		Win:6.0

- audit failure event log event type= event type of record (oldest record number of it) of application event log
- ▶ Returns TRUE if the oldest record of the application event log contains an audit failure.
- error event log event type= event type of record (oldest record number of it) of application event log
- ▶ Returns TRUE if the oldest record of the application event log contains an error.

Environment Objects

The environment objects are provided to access environment variables. Note that you are inspecting the environment of the application executing the relevance clause (typically the BigFix Agent/Client), which may or may not match the environment of other applications on the computer.

Environment

Environment variables define a particular set of paths and variables for a computer or an application. These Inspectors let you examine this set.

Creation Methods

Key Phrase	Form	Description
environment	PlainGlobal	Creates the one and only environment object.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

Properties

Key Phrase	Form	Return Type	Description
variable <string> of <environment></environment></string>	Named	<environment variable=""></environment>	Returns an environment variable that matches the given name. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
variable of <environment></environment>	Plain	<environment variable=""></environment>	Iterates through all the environment variables defined. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

- exists environment
- ▶ TRUE if the computer has an environment object.
- value of variable "path" of environment contains "\extras\"
- TRUE if there is an environment variable named "path" and its value contains "\extras\".
- number of variables of environment
- Returns the total number of variables in the environment space.

Environment Variable

Every variable defined by the environment has both a name and a value. Both names and values are treated as strings.

Creation Methods

Key Phrase	Form	Description
variable <string> of <environment></environment></string>	Named	Creates the variable of the environment matching the name provided. The capitalization of the name is ignored. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
variable of <environment></environment>	Plain	Iterates through all the environment variables defined. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

Properties

Key Phrase	Form	Return Type	Description
<pre><environment variable=""> as string</environment></pre>	Cast	<string></string>	Casting the variable as a string yields a string containing the variable name and the value of the variable separated by ' = '. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
	<u> </u>		
name of <environment< td=""><td>Plain</td><td><string></string></td><td>Returns the name of the variable.</td></environment<>	Plain	<string></string>	Returns the name of the variable.
variable>			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1
value of <environment variable=""></environment>	Plain	<string></string>	Returns the value of the variable.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:5.1

- exists variable "PATH" of environment
- ▶ TRUE if a path variable has been defined in this environment.
- number of variables of environment
- Returns the total number of variables in this environment.

Authorization Objects

These inspectors retrieve security and access settings.

Access Control Entry

An Access Control Entity, or ACE, is an entry in an access control list (ACL). An ACE contains a set of access rights and a security identifier (SID) that identifies a trustee for whom the rights are allowed, denied, or audited.

Creation Methods

Key Phrase	Form	Description
entry of <access control="" list=""></access>	Plain	Iterates the ACEs of an ACL.
		Win:4.1

Key Phrase	Form	Return Type	Description
access mode of <access control="" entry=""></access>	Plain	<integer></integer>	For a discretionary ACL (DACL), this flag indicates whether the ACL allows (1) or denies (3) the specified access rights. Win:4.1
append permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a file ACE, returns TRUE if the ACE grants or denies append permissions. Win:4.1
change notification permission of <access control entry></access 	Plain	<boolean></boolean>	For a registry key ACE, returns TRUE if the ACE grants or denies change notification permissions. Win:4.1
create file permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For a folder ACE, returns TRUE if the ACE grants or denies create file permissions. Win:4.1
create folder permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For a folder ACE, returns TRUE if the ACE grants or denies create folder permissions. Win:4.1

Key Phrase	Form	Return Type	Description
create link permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For a registry key ACE, returns TRUE if the ACE grants or denies create key link permissions. Win:4.1
create subkey permission of <access control entry></access 	Plain	<boolean></boolean>	For a registry key ACE, returns TRUE if the ACE grants or denies creation of subkey permissions. Win:4.1
delete child permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For a folder ACE, returns TRUE if the ACE grants or denies child deletion permissions. Win:4.1
delete permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or generic delete permissions. Win:4.1
enumerate subkeys permission of <access control entry></access 	Plain	<boolean></boolean>	For a registry key ACE, returns TRUE if the ACE grants or enumerate subkey permissions. Win:4.1
execute permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a file ACE, returns TRUE if the ACE grants or denies execute permissions. Win:4.1
generic all permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies all generic permissions. Win:4.1
generic execute permission of <access control entry></access 	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies generic execute permissions. Win:4.1
generic read permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies generic read permissions. Win:4.1
generic write permission of <access control entry></access 	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies generic write permissions. Win:4.1

Key Phrase	Form	Return Type	Description
inheritance of <access control="" entry=""></access>	Plain	<integer></integer>	A set of bit flags that determines whether other containers or objects can inherit the ACE from the primary object to which the ACL is attached. The actual values of the constants are: • NO_INHERITANCE = 0 • SUB_OBJECTS_ONLY_INHERIT = 1 • SUB_CONTAINERS_ONLY_INHERIT = 2 • SUB_CONTAINERS_AND_OBJECTS_INHERIT = 3 • OJECT_INHERIT_ACE = 1 • CONTAINER_INHERIT_ACE = 2 • NO_PROPAGATE_INHERIT_ACE = 4 • INHERIT_ONLY_ACE = 8. Win:4.1
list permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a folder ACE, returns TRUE if the ACE grants or denies list permissions. Win:4.1
maximum allowed permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies maximum allowed permissions. Win:4.1
query value permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For a registry key ACE, returns TRUE if the ACE grants or denies query value permissions. Win:4.1
read attributes permission of <access control entry></access 	Plain	<boolean></boolean>	For a file or folder ACE, returns TRUE if the ACE grants or denies read attributes permissions. Win:4.1
read control permission of <access control<br="">entry></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies reading access control permissions. Win:4.1
read extended attributes permission of <access control entry></access 	Plain	<boolean></boolean>	For a file or folder ACE, returns TRUE if the ACE grants or denies read extended attributes permissions. Win:4.1
read permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a file ACE, returns TRUE if the ACE grants or denies read permissions. Win:4.1
set value permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a registry key ACE, returns TRUE if the ACE grants or denies set value permissions. Win:4.1

Key Phrase	Form	Return Type	Description
synchronize permission of <access control<="" td=""><td>Plain</td><td><boolean></boolean></td><td>For any ACE, returns TRUE if the ACE grants or denies synchronize permissions.</td></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies synchronize permissions.
entry>			Win:4.1
traverse permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For the specified folder ACE, returns TRUE if it grants or denies traverse • folder permission.
			Win:4.1
trustee of <access control="" entry=""></access>	Plain	<security identifier=""></security>	Returns the trustee to whom the specified ACE applies.
			Win:4.1
trustee type of <access control="" entry=""></access>	Plain	<integer></integer>	Returns the type of trustee to whom the specified ACE applies.
			Win:4.1
write attributes permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a file or folder ACE, returns TRUE if the ACE grants or denies write attribute permissions.
control chiry>			Win:4.1
write dac permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies write DAC permissions.
			Win:4.1
write extended attributes permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a file or folder ACE, returns TRUE if the ACE grants or denies write extended attribute permissions.
			Win:4.1
write owner permission of <access control<="" td=""><td>Plain</td><td><boolean></boolean></td><td>For any ACE, returns TRUE if the ACE grants or denies write owner permissions.</td></access>	Plain	<boolean></boolean>	For any ACE, returns TRUE if the ACE grants or denies write owner permissions.
entry>			Win:4.1
write permission of <access control="" entry=""></access>	Plain	<boolean></boolean>	For a file ACE, returns TRUE if the ACE grants or denies write permissions.
			Win:4.1

Access Control List

An Access Control List, or ACL, is a list of security protections that applies to an object. An object can be a file, process, event, or anything else having a security descriptor. An entry in an access control list (ACL) is an access control entry (ACE). Access rights run up through the object hierarchy, so rights granted at a low level can be vetoed by rights higher up. Some of the following Inspectors determine the effective permissions for a given trustee by traversing the hierarchy. They work by exposing the GetEffectiveRightsFromAcl method, as explained here: http://tinyurl.com/dtmje.

Creation Methods

Key Phrase	Form	Description
dacl of <security descriptor=""></security>	l .	Returns the discretionary access control list associated with the given security descriptor.
		Win:4.1

Note

Requires Windows XP, Windows 2000 Professional, or Windows NT Workstation 3.1 and later.

Key Phrase	Form	Return Type	Description
effective access mode for <string> of <access control list></access </string>	Named	<integer></integer>	Returns an integer corresponding to the access mode for the trustee specified by <string> of the given access control list. Win:6.0</string>
effective access system security permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has access system security permissions on the given access control list. Win:6.0</string>
effective append permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has append permissions on the given access control list. Win:6.0</string>
effective change notification permission for <string> of <access control list></access </string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has change notification permissions on the given access control list. Win:6.0</string>

Key Phrase	Form	Return Type	Description
effective create file permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has file creation permissions on the given access control list.</string>
			Win:6.0
effective create folder permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has folder creation permissions on the given access control list. Win:6.0</string>
effective create link permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has link creation permissions on the given access control list. Win:6.0</string>
effective create subkey permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has subkey creation permissions on the given access control list. Win:6.0</string>
effective delete child permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has child deletion permissions on the given access control list. Win:6.0</string>
effective delete permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has delete permissions on the given access control list. Win:6.0</string>
effective enumerate subkeys permission for <string> of <access control list></access </string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has subkey enumeration permissions on the given access control list. Win:6.0</string>
effective execute permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has execution permissions on the given access control list. Win:6.0</string>
effective generic all permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has all generic permissions on the given access control list.</string>
			Win:6.0

Key Phrase	Form	Return Type	Description
effective generic execute permission for <string> of <access control list></access </string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has generic execution permissions on the given access control list. Win:6.0</string>
effective generic read permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has generic read permissions on the given access control list. Win:6.0</string>
effective generic write permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has generic write permissions on the given access control list. Win:6.0</string>
effective list permission for <string> of <access control list></access </string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has list permissions on the given access control list. Win:6.0</string>
effective maximum allowed permission for <string> of <access control list></access </string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has maximum allowed permissions on the given access control list. Win:6.0</string>
effective query value permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has query value permissions on the given access control list. Win:6.0</string>
effective read attributes permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has read attribute permissions on the given access control list. Win:6.0</string>
effective read control permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has read control permissions on the given access control list. Win:6.0</string>
effective read extended attributes permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has extended read attribute permissions on the given access control list. Win:6.0</string>

Key Phrase	Form	Return Type	Description
effective read permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has read permissions on the given access control list. Win:6.0</string>
effective set value permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has value setting permissions on the given access control list. Win:6.0</string>
effective synchronize permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has synchronization permissions on the given access control list. Win:6.0</string>
effective traverse permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has traverse permissions on the given access control list. Win:6.0</string>
effective write attributes permission for <string> of <access control list></access </string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has attribute writing permissions on the given access control list. Win:6.0</string>
effective write dac permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has dac writing permissions on the given access control list. Win:6.0</string>
effective write extended attributes permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has extended attribute writing permissions on the given access control list. Win:6.0</string>
effective write owner permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has write owner permissions on the given access control list. Win:6.0</string>
effective write permission for <string> of <access control="" list=""></access></string>	Named	<boolean></boolean>	Returns TRUE if the trustee specified by <string> has write permissions on the given access control list. Win:6.0</string>

Key Phrase	Form	Return Type	Description
entry of <access control="" list=""></access>	Plain	<access control entry></access 	Iterates the ACEs of a ACL. Win:4.1

Note

The ACCESS_MASK is returned from the effective access mode as a double word defining standard, specific, and generic rights. These rights are used in access control entries (ACEs) and are the primary means of determining access to an object.

Bits	Meaning
0 through 15	Specific rights. Contains the access mask specific to the object type associated with the mask.
16 through 23	Contains the object's standard access rights.
24	The Access system security bit is used to indicate access to a system access control list (SACL). If this flag is set in the access mask of an audit access ACE (successful or unsuccessful access), the SACL access will be audited.
25	Maximum allowed.
26 through 27	Reserved.
28	Generic all.
29	Generic execute.
30	Generic write.
31	Generic read.

The standard rights bits from 16 to 23 contain the object's standard access rights and can be a combination of the following predefined flags:

Bit	Flag	Meaning
16	DELETE	Delete access.
17	READ_CONTROL	Read access to the owner, group, and discretionary access control list (DACL) of the security descriptor.
18	WRITE_DAC	Write access to the DACL.
19	WRITE_OWNER	Write access to owner.
20	SYNCHRONIZE	Synchronize access.

Examples

- number of dacls of (security descriptor of file "mshtml.dll" of system folder) = 1
- Returns TRUE if there is exactly one discretionary access control list associated with the security descriptor of the specified file.
- effective access mode for "Administrators" of dacls of security descriptors of system folder as hexadecimal
- Returns a hex value corresponding to the access mode of the system folder for users logged in as Administrators
- effective append permission for "Power Users" of dacls of security descriptors of windows folder
- Returns TRUE if Power Users have append permissions on the system folder.
- effective create folder permissions for "Administrators" of dacls
 of security descriptors of folders of folder "c:\"
- Returns a list of TRUE/FALSE values corresponding to the ability of the Administrator to create new folders in each of the existing folders of the c: drive.
- effective synchronize permission for "Administrators" of dacls of security descriptors of system folder
- Returns TRUE if the Administrator has permission to syncrhonize with the system folder.

Security Descriptor

A structure and associated data that contains the security information for a securable object. A security descriptor identifies the object's owner and primary group. It can also contain a DACL that controls access to the object, and a SACL that controls the logging of attempts to access the object.

Creation Methods

Key Phrase	Form	Description
security descriptor of <file></file>	Plain	Specifies the security descriptor associated with the specified file. Win:4.1
security descriptor of <folder></folder>	Plain	Specifies the security descriptor associated with the specified folder. Win:4.1

Key Phrase	Form	Description
security descriptor of <network share=""></network>	Plain	Specifies the security descriptor associated with the specified network share. Win:4.1
security descriptor of <registry key=""></registry>	Plain	Specifies the security descriptor associated with the specified registry key. Win:4.1

Key Phrase	Form	Return Type	Description
<security descriptor=""> as string</security>	Cast	<string></string>	Returns the security descriptor in string format. Win:4.1
control of <security descriptor=""></security>	Plain	<integer></integer>	Returns the integer property obtained by using the Microsoft Windows GetSecurityDescriptorControl API. This integer contains bits that indicate DACL behaviors as well as default behaviors. See the MSDN documentation of SECURITY_DESCRIPTOR_CONTROL for more information. Win:6.0
dacl of <security descriptor=""></security>	Plain	<access control list></access 	Returns the discretionary access control list associated with the given security descriptor. Win:4.1
group of <security descriptor></security 	Plain	<security identifier=""></security>	Returns the security identifier of the group of the specified security descriptor. Win:4.1
owner of <security descriptor=""></security>	Plain	<security identifier=""></security>	Returns the security identifier of the owner of the specified security descriptor. Win:4.1

Security Identifier

A Security Identifier, or SID, is a data structure that identifies user, group, and computer accounts. Every account on a network is issued a unique SID when the account is first created. Internal processes in Windows refer to an account's SID rather than the account's user or group name.

Creation Methods

Key Phrase	Form	Description
group of <security descriptor=""></security>	Plain	Returns the SID of the group of the specified security descriptor.
		Win:4.1
owner of <security descriptor=""></security>	Plain	Returns the security identifier of the owner of the specified security descriptor.
		Win:4.1
sid of <local group="" member=""></local>	Plain	Returns the security ID for the specified local group member.
		Win:6.0
trustee of <access control="" entry=""></access>	Plain	Returns the trustee to whom the specified ACE applies.
		Win:4.1
user sid of <event log="" record=""></event>	Plain	Returns the user security ID for the specified record in the event log.
		Win:6.0

Key Phrase	Form	Return Type	Description
<pre><security identifier=""> as string</security></pre>	Cast	<string></string>	Returns the security identifier in string format. Win:4.1
account name of <security identifier=""></security>	Plain	<string></string>	Retrieves the name of the account for this SID and the name of the first domain on which this SID is found. Win:4.1
domain name of <security identifier=""></security>	Plain	<string></string>	Returns the domain name of the first domain on which the specified SID is found. Win:4.1

User Objects

Local User

A Local User object is provided to access the user data of the local machine. Note that domain users are not available through this Inspector.

Creation Methods

Key Phrase	Form	Description
domain user	PlainGlobal	Returns all of the users that are members of the domain for which the machine is a user. Win:4.1
domain user <string></string>	NamedGlobal	Returns the local user object corresponding to the specified name. Win:4.1
local user	PlainGlobal	Creates an object with all the local user accounts. Win:1.2
local user <string></string>	NamedGlobal	Creates an object with a named user account. Win:1.2

Key Phrase	Form	Return Type	Description
account disabled flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that this account is disabled. Win:1.2
account expiration of <local user=""></local>	Plain	<time></time>	Returns the time when this account is set to expire. Win:1.2
accounts operator flag of <local user=""></local>	Plain	<boolean></boolean>	This user has the accounts operator privilege. Win:1.2
admin privilege of <local user=""></local>	Plain	<boolean></boolean>	Indicates that the user has a privilege level of 'admin'. Win:1.2

Key Phrase	Form	Return Type	Description
allowed workstations string of <local user=""></local>	Plain	<string></string>	Returns a list of workstations this user is allowed to login to. If this string is empty, no restrictions apply. Win:1.2
application parameter string of <local user=""></local>	Plain	<string></string>	Returns a string used by Microsoft products to store user configuration information. Win:1.2
bad password count of <local user=""></local>	Plain	<integer></integer>	Returns the number of attempts to logon to this account with a bad password. Win:1.2
code page of <local user=""></local>	Plain	<integer></integer>	Returns the code page for the user's preferred language. Win:1.2
comment of <local user=""></local>	Plain	<string></string>	Returns the comment associated with this user's account.
communications operator flag of <local user></local 	Plain	<boolean></boolean>	This user has the communications operator privilege. Win:1.2
country code of <local user=""></local>	Plain	<integer></integer>	Returns the country code of the user's preferred language. Win:1.2
full name of <local user=""></local>	Plain	<string></string>	Returns the full name of the user. Win:1.2
guest privilege of <local user=""></local>	Plain	<boolean></boolean>	Indicates that the user has a privilege level of 'guest'. Win:1.2
home directory drive of <local user=""></local>	Plain	<string></string>	Returns the name of the drive assigned to the user's home directory. Win:1.2
home directory of <local user=""></local>	Plain	<string></string>	Returns the directory where the user files are stored for the particular user. Win:1.2

Key Phrase	Form	Return Type	Description
home directory required flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that a home directory is required for the user. Win:1.2
interdomain trust account flag of <local user></local 	Plain	<boolean></boolean>	This is an account which specifies that a domain should trust other domains. Win:1.2
last logoff of <local user=""></local>	Plain	<time></time>	Returns the time when the user last logged off. Win:1.2
last logon of <local user=""></local>	Plain	<time></time>	Returns the time when the user last logged on. Win:1.2
locked out flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that this user is currently locked out. Win:1.2
logon count of <local user=""></local>	Plain	<integer></integer>	Returns the number of times which this account has successfully logged on to the local machine. Win:1.2
logon script of <local user=""></local>	Plain	<string></string>	Returns the pathname of this user's logon script. Win:1.2
logon server of <local user=""></local>	Plain	<string></string>	Returns the name of the server to which logon requests are sent for this account. Win:1.2
maximum storage of <local user=""></local>	Plain	<integer></integer>	Returns the user's disk quota. Will return FALSE if the user has no disk quota. Win:1.2
name of <local user=""></local>	Plain	<string></string>	Returns the name of the user. Win:1.2
no password required flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that no password is required for this user. Win:1.2
normal account flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that this account has a default account type that represents a typical user. Win:1.2

Key Phrase	Form	Return Type	Description
password age of <local user=""></local>	Plain	<time interval></time 	Gives the time since the user's password was last changes. Win:1.2
password change disabled flag of <local user></local 	Plain	<boolean></boolean>	Indicates that this user is not allowed to change his password. Win:1.2
password expiration disabled flag of <local user></local 	Plain	<boolean></boolean>	Indicates that the password on this account will never expire. Win:1.2
password expired of <local user=""></local>	Plain	<boolean></boolean>	Indicates that the user's password has expired. Win:1.2
primary group id of <local user=""></local>	Plain	<integer></integer>	Returns the RID of the user's primary group. Win:1.2
print operator flag of <local user=""></local>	Plain	<boolean></boolean>	This user has the print operator privilege. Win:1.2
profile folder of <local user=""></local>	Plain	<string></string>	Returns the pathname of the folder which contains the user's profile. Win:1.2
script flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that the logon script executed. Win:1.2
server operator flag of <local user=""></local>	Plain	<boolean></boolean>	This user has the server operator privilege. Win:1.2
server trust account flag of <local user=""></local>	Plain	<boolean></boolean>	This is an account for a backup domain controller. Win:1.2
temporary duplicate account flag of <local user=""></local>	Plain	<boolean></boolean>	Indicates that this is a temporary duplicate account. Win:1.2
user comment of <local user=""></local>	Plain	<string></string>	Returns the user comment of this user. Win:1.2
user id of <local user=""></local>	Plain	<integer></integer>	Returns the user's RID number. Win:1.2

Key Phrase	Form	Return Type	Description
user privilege of <local user=""></local>	Plain	<boolean></boolean>	Indicates that the user has a privilege level of 'user'. Win:1.2
workstation trust account flag of <local user></local 	Plain	<boolean></boolean>	This account is for a workstation or server. Win:1.2

- exists local user "Administrator"
- ▶ TRUE if there exists a local user named Administrator.
- exists local user whose (bad password count of it > 5)
- ▶ TRUE if there have been more than 5 bad password attempts on this account.
- password age of local user "Administrator" > 30 * day
- ▶ TRUE if the Administrator's password is older than 30 days.

Current User

This object exists if the user is logged in to the current machine.

Creation Methods

Key Phrase	Form	Description
current user	PlainGlobal	Creates the current user object if one is logged in to the desktop.
		Win:1.2, Mac:4.1

Properties

Key Phrase	Form	Return Type	Description
name of <current user=""></current>	Plain	<string></string>	Returns the name of the current user.
			Win:1.2, Mac:4.1

- local user (name of current user)
- ▶ Provides access to all the local user properties of the currently logged-in user.

Action Objects

These are the keywords associated with properties that can be inspected while BigFix Actions are being executed.

Action

These are the keywords associated with properties available for inspection during the execution of BigFix Actions.

Creation Methods

Key Phrase	Form	Description
action	PlainGlobal	Creates an action object corresponding to the BigFix Action currently being parsed.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0, Mac:5.1
action <integer></integer>	NumberedGlobal	Creates an action object matching the <integer> id.</integer>
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
active action	PlainGlobal	Creates an action object corresponding to the currently executing action.
		Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
active of <action></action>	Plain	<boolean></boolean>	Returns TRUE if the action is currently running (active).
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
active start time of	Plain	<time></time>	Returns the time the action started.
<action></action>			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
complete time of	Plain	<time></time>	Returns the time the action completed.
<action></action>			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
constrained of <action></action>	Plain	<boolean></boolean>	Returns TRUE if action is unable to run yet.
			Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
group leader of <action></action>	Plain	<boolean></boolean>	Returns TRUE if the action is a group action and the action component is the group leader. When you deploy a mult-action from the BES Console, it constructs a group action with a group leader to control the overall behavior of the action. This inspector is used internally to manage the progress of the group action. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
id of <action></action>	Plain	<integer></integer>	Returns the action id of the action. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
last change time of <action></action>	Plain	<time></time>	Returns the time when the action state last changed. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
origin fixlet id of	Plain	<integer></integer>	Returns the Fixlet id that contained the action.
<action></action>	liain	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
parameter <string> of <action></action></string>	Named	<string></string>	Returns the value of parameter <string> for the active action. Parameters only live as long as the action is active.</string>
pending login of <action></action>	Plain	<boolean></boolean>	Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1 Returns TRUE if the specified action included an 'action requires login' command, and a login has not yet occurred since the action has run. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
pending of <action></action>	Plain	<boolean></boolean>	Returns TRUE if action is available to run. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
pending restart of <action></action>	Plain	<book{boolean></book{boolean>	Returns TRUE if the specified action included an 'action requires restart' command and a restart has not occurred since the action has run. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
pending time of <action></action>	Plain	<time></time>	Returns the time the action became pending. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
status of <action></action>	Plain	<string></string>	Returns one of the following strings: • Running = when the action is currently active. • Executed = no longer relevant and action has completed. • Not Relevant = action was not relevant. • Waiting = action is relevant, but waiting to run. • Not Executed = action is relevant, unconstrained, but has not yet started. • Failed = action is relevant, unconstrained, has completed, but is still relevant. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1
waiting for download of <action></action>	Plain	<boolean></boolean>	Returns TRUE if client is waiting for mirroring server to have downloads required by the action. Win:1.2, Lin:3.1, Sol:3.1, HPUX:4.0, AIX:4.1, Mac:4.1

Networking Objects

This chapter includes the various networking Inspectors.

Network

These are the keywords used to query the local network configuration.

Creation Methods

Key Phrase	Form	Description
network	PlainGlobal	Creates an object containing properties of the network.
		Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Form	Return Type	Description
Plain	<network adapter=""></network>	Returns the one or more network adapter objects of the network.
		Win:2.0
Plain	<pre><connection></connection></pre>	Returns the connection of the specified network.
		Win:5.0
Plain	<network address="" list=""></network>	Returns a list of DNS servers used by the local computer.
		Win:4.1
Numbered		Returns the particular interface of the network.
	interface>	Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Plain	<network< td=""><td>Returns all the interfaces of the network.</td></network<>	Returns all the interfaces of the network.
	interface>	Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Numbered	<network interface="" ip=""></network>	Returns the particular ip interface of the network.
		Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Plain	<network ip<="" td=""><td>Returns all the ip interfaces of the network.</td></network>	Returns all the ip interfaces of the network.
	interface>	Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
	Plain Plain Plain Numbered Plain Numbered	Plain <network adapter=""> Plain <connection> Plain <network address="" list=""> Numbered <network interface=""> Plain <network interface=""> Numbered <network interface="" ip=""> Plain <network interface="" ip=""></network></network></network></network></network></connection></network>

Key Phrase	Form	Return Type	Description
winsock2 supported of <network></network>	Plain	<boolean></boolean>	Indicates that winsock2 is supported by the network. If this returns FALSE, many of the other properties of the interface are not available for inspection. Win:1.2

Network Interface

The network interface object describes a generic network interface, and has information about the name and family of that interface. On the Mac these are commonly of type AF_INET, AF_LINK and AF_INET6.

Creation Methods

Key Phrase	Form	Description
interface <integer> of <network></network></integer>	Numbered	Creates an object with the specified network interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
interface of <network></network>	Plain	Creates an object with all the interfaces of the network. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Properties

Key Phrase	Form	Return Type	Description
family of <network interface=""></network>	Plain	<integer></integer>	Returns an family designator of the address family (i.e., 2=AFI_NET).
			Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

- names of interfaces of network
- Returns a list of the network interface names, e.g., lo0, gif0, stf0, en0.

Network Ip Interface

In general, the network ip interface object holds locally determined properties of logical network devices configured on the computer. On the Mac, these correspond to interfaces of type AF_INET. The properties that are available depend on the socket support installed on the computer. For Windows computers with winsock 2 support installed, for instance, the information is obtained by an ioctl call and includes Interface address, Interface broadcast address, Interface network mask, Broadcast support flag, Multicast support flag, Loopback interface flag and Point to point interface flag.

Creation Methods

Key Phrase	Form	Description
ip interface <integer> of <network></network></integer>	Numbered	Creates an object with the specified ip interface of the network. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
ip interface of <network></network>	Plain	Creates an object or an object list (using the plural keyword) with all the ip interfaces of the network. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Key Phrase	Form	Return Type	Description
address of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	Returns the ip address of the ip interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
broadcast address of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	Returns the broadcast address of the interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
broadcast support of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that broadcast messages are supported by the ip interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
loopback of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that the particular network ip interface is a loopback interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
multicast support of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that multicast messages are supported by the ip interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Key Phrase	Form	Return Type	Description
point to point of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that the interface is a point-to-point interface. Usually TRUE for dialup connections. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
subnet address of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	The subnet to which the interface belongs. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
subnet mask of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	The subnet mask of the interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Examples

- names of ip interfaces of network
- Returns a list of the names of the network IP interfaces, e.g., lo0, en0.
- addresses of ip interfaces of network
- Returns a list of the IP addresses of the network IP interfaces, e.g., 127.0.0.1, 192.168.1.100, etc.
- address of ip interface whose (loopback of it = false) of network
 = "192.168.127.127"
- Returns TRUE if the given IP address doesn't have loopback.

Ipv4 Address

This is an Internet Protocol address, version 4. IP addresses are composed of four single-byte integers separated by periods, like "192.5.0.7".

Creation Methods

Key Phrase	Form	Description
address of <network adapter></network 	Plain	Returns the ip address of the network adapter. Win:2.0
address of <network address="" list=""></network>	Plain	Returns the ip address of the network adapter list. Win:2.0
address of <network interface="" ip=""></network>	Plain	Creates an object with the ip address of the interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
broadcast address of <network interface="" ip=""></network>	Plain	Creates an object with the broadcast address of the interface. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Form	Description
Plain	Returns the ip address of the dhcp server of the network adapter.
	Win:2.0
Numbered	The ip address of a gateway between the agent and the selected server at the given distance from the agent, if known.
	Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Plain	All known ip addresses of gateways between the agent and the selected server.
	Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Plain	Returns the ip address of the gateway of the network adapter.
	Win:2.0
Plain	The ip address to which reports are sent.
	Win:4.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
NamedGlobal	Creates an object with an ip address for the string provided.
	Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Plain	Returns the ip address of the primary wins server of the network adapter.
	Win:2.0
Plain	Returns the ip address of the secondary wins server of the network adapter.
	Win:2.0
Plain	Returns the subnet address of the network adapter.
	Win:2.0
Plain	Returns the subnet address of the network address list.
	Win:2.0
Plain	Creates an object with the subnet address of the network interface.
	Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
Plain	Returns the subnet mask of the network adapter. Win:2.0
	Plain Numbered Plain

Key Phrase	Form	Description
subnet mask of <network address="" list=""></network>	Plain	Returns the subnet mask of the network adapter list. Win:2.0
subnet mask of <network interface="" ip=""></network>	Plain	Creates an object with the address bitwise ANDed with the subnet mask. Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
target ip address of <port mapping=""></port>	Plain	Returns the target IP address of the specified port mapping. Win:4.1

Properties

Key Phrase	Form	Return Type	Description
<ipv4 address=""> as</ipv4>	Cast	<string></string>	Converts the ipv4 address to a string.
string			Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

Operators

Key phrase	Return Type	Description
<pre><ipv4 address=""> {cmp} <ipv4 address=""></ipv4></ipv4></pre>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1
<pre><ipv4 address=""> {cmp} <string></string></ipv4></pre>	<boolean></boolean>	Returns a boolean TRUE/FALSE depending on the result of the comparison, where: • {cmp} is one of: =, !=, <, <=, >, >= . Win:1.2, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:5.1

- exists ip interface whose (address of it = "127.0.0.1" and loopback of it) of network
- ▶ Returns TRUE if the specified ip interface (with loopback) exists on this computer.
- addresses of ip interfaces of network
- ▶ Returns a list of IP addresses configured on the machine.
- ipv4 address "192.168.100.1"
- Returns the four-byte ip address 192.168.100.1.

Network Adapter

One or more network adapters may be inspected using this property of the network object. Each network adapter has a number of interesting properties such as the MAC address.

Creation Methods

Key Phrase	Form	Description
adapter of <network></network>	Plain	Returns one or more adapters of the network.
		Win:2.0

Key Phrase	Form	Return Type	Description
address list of <network adapter=""></network>	Plain	<network address list></network 	Returns the address list of the network adapter. Win:2.0
address of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the ip address of the network adapter (returns the first address if it is a list). Win:2.0
description of <network adapter=""></network>	Plain	<string></string>	Returns the description of the network adapter. Win:2.0
dhcp enabled of <network adapter=""></network>	Plain	<boolean></boolean>	Returns TRUE if dhcp is enabled on the network adapter. Win:2.0
dhcp server of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the ip address of the dhcp server of the network adapter. Win:2.0
dns server of <network adapter=""></network>	Plain	<network address list></network 	Returns a list of DNS servers used by the specified adapter. Win:4.1
gateway list of <network adapter=""></network>	Plain	<network address list></network 	Returns the gateway network address list of the network adapter. Win:2.0
gateway of <network adapter></network 	Plain	<ipv4 address></ipv4 	Returns the ip address of the gateway of the network adapter. Win:2.0

Key Phrase	Form	Return Type	Description
internet connection firewall of <network adapter></network 	Plain	<internet connection="" firewall=""></internet>	Creates a Windows XP firewall object. Win:4.1
lease expires of <network adapter=""></network>	Plain	<time></time>	Returns the time that the dhcp lease will expire of the network adapter. Win:2.0
lease obtained of <network adapter=""></network>	Plain	<time></time>	Returns the time that the dhcp lease was obtained of the network adapter. Win:2.0
link speed of <network adapter=""></network>	Plain	<integer></integer>	This is a property of a network adapter. It returns the maximum speed of the NIC card in bits per second. Win:6.0
mac address of <network adapter=""></network>	Plain	<string></string>	Returns the mac address of the network adapter. Win:2.0
name of <network adapter=""></network>	Plain	<string></string>	Returns the name of the network adapter. Win:2.0
primary wins server of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the ip address of the primary wins server of the network adapter. Win:2.0
secondary wins server of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the ip address of the secondary wins server of the network adapter. Win:2.0
subnet address of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet address of the network adapter. Win:2.0
subnet mask of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet mask of the network adapter. Win:2.0

Key Phrase	Form	Return Type	Description
wakeonlan enabled of <network adapter=""></network>	Plain	<boolean></boolean>	Returns true if the specified network adapter is configured to react to Wake-On-Lan requests. Wake-On-Lan is a mechanism used to trigger a boot of a machine in standby mode by sending a special packet. • Note: Wake-On-Lan is only supported for Windows 2000 and XP machines. Win:5.1
wins enabled of <network adapter=""></network>	Plain	<boolean></boolean>	Returns TRUE if WINS is enabled on the network adapter. Win:2.0

Network Address List

A network adapter may be configured to respond to a list of network addresses. This object type provides access to such a list.

Creation Methods

Key Phrase	Form	Description
address list of <network adapter=""></network>	Plain	Returns the address list of the network adapter. Win:2.0
dns server of <network adapter=""></network>	Plain	Returns a list of DNS servers used by the specified adapter. Win:4.1
dns server of <network></network>	Plain	Returns a list of DNS servers used by the local computer. Win:4.1
gateway list of <network adapter></network 	Plain	Returns the gateway network address list of the network adapter. Win:2.0

Key Phrase	Form	Return Type	Description
address of <network address list></network 	Plain	<ipv4 address></ipv4 	Returns the address of the address list. Win:2.0
subnet address of <network address="" list=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet address of the network address list. Win:2.0
subnet mask of <network address="" list=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet mask of the network address list. Win:2.0

Internet Connection Firewall

Provides access to the settings of the Internet Connection Firewall introduced in Windows XP. The Internet Connection Firewall helps to protect a computer that is directly connected to the Internet, or a home network, from network attacks.

Creation Methods

Key Phrase	Form	Description
firewall of <connection></connection>	Plain	Returns the internet connection firewall object corresponding to the specified connection. Win:5.0
internet connection firewall of <network adapter=""></network>	Plain	Creates a Windows XP firewall object. Win:4.1

Key Phrase	Form	Return Type	Description
enabled of <internet connection="" firewall=""></internet>	Plain	<boolean></boolean>	Returns TRUE if the local computer has the Windows XP built-in firewall enabled. Win:4.1
port mapping of <internet connection="" firewall=""></internet>	Plain	<port mapping></port 	Creates a port mapping object for the built-in firewall. Win:4.1

Port Mapping

Refers to a port mapping object for the built-in firewall.

Creation Methods

Key Phrase	Form	Description
port mapping of <internet< td=""><td>Plain</td><td>Creates a port mapping object for the built-in firewall.</td></internet<>	Plain	Creates a port mapping object for the built-in firewall.
connection firewall>		Win:4.1

Key Phrase	Form	Return Type	Description
enabled of <port mapping></port 	Plain	<boolean></boolean>	A boolean indicating whether or not the port mapping is enabled. Win:4.1
external port of <port mapping></port 	Plain	<integer></integer>	Returns the external port number of the specified ICF port mapping. Win:4.1
internal port of <port mapping=""></port>	Plain	<integer></integer>	Returns the internal port number of the specified ICF port mapping. Win:4.1
name of <port mapping></port 	Plain	<string></string>	Returns the name of the specified port mapping. Win:4.1
options of <port mapping></port 	Plain	<integer></integer>	See port mapping at MSDN. Win:4.1
protocol of <port mapping></port 	Plain	<string></string>	Returns a string like "tcp" or "udp", corresponding to the protocol of the specified port mapping. Win:4.1
target ip address of <port mapping=""></port>	Plain	<ipv4 address></ipv4 	Returns the target IP address of the specified port mapping. Win:4.1
target name of <port mapping></port 	Plain	<string></string>	Returns the target name of the specified port mapping. Win:4.1

Network Share

The network share Inspector does not work on Windows 95/98/Me. The password and permission properties are relevant only for shares using share-level security. User-level security is given by the security descriptor. The use limit property will throw NoSuchObject if use is unlimited.

Creation Methods

Key Phrase	Form	Description
network share	PlainGlobal	Creates a network shared object.
		Win:4.1
network share <string></string>	NamedGlobal	Creates a named network shared object.
		Win:4.1

Key Phrase	Form	Return Type	Description
attribute permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to modify the attributes of the shared resource (such as the date and time when a file was last modified). Win:4.1
comment of <network share=""></network>	Plain	<string></string>	Returns a string specifying an optional comment about the shared resource. Win:4.1
create permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to create an instance of a shared resource (such as a file). Win:4.1
delete permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to delete the resource. Win:4.1
execute permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to execute the resource. Win:4.1
name of <network share=""></network>	Plain	<string></string>	Returns a string specifying the name of the specified shared resource. Win:4.1

Key Phrase	Form	Return Type	Description
password of <network share></network 	Plain	<string></string>	A string that specifies the share's password (when the server is running with share-level security). Note that the Windows Server 2003 family, Windows XP, Windows 2000, and Windows NT do not support share-level security.
			Win:4.1
path of <network share=""></network>	Plain	<string></string>	A string containing the local path for the shared resource.
			Win:4.1
permission permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to modify the permissions (read, write, create, execute, and delete) for the specified network share.
			Win:4.1
read permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to read data from a resource and, by default, to execute the specified network share.
			Win:4.1
security descriptor of <network share=""></network>	Plain	<pre><security descriptor=""></security></pre>	Specifies the security descriptor associated with the specified network share.
			Win:4.1
type of <network share=""></network>	Plain	<integer></integer>	Specifies an integer value that indicates the type of share. (See the Microsoft document on SHARE_INFO_502).
			Win:4.1
use count of <network share=""></network>	Plain	<integer></integer>	Specifies an integer value that indicates the number of current connections to the specified network share.
			Win:4.1
use limit of <network share=""></network>	Plain	<integer></integer>	Specifies an integer value indicating the maximum number of concurrent connections that the shared resource can accommodate. Win:4.1
write permission of <network share=""></network>	Plain	<boolean></boolean>	Returns TRUE if permission is granted to write data to the specified network share. Win:4.1

Connection

This object is used to query your connections. These are all properties of the Internet Connection Firewall, as returned in the NETCON_PROPERTIES structure.

Creation Methods

Key Phrase	Form	Description
connection of <network></network>	Plain	Returns a connection to the specified network.
		Win:5.0

Key Phrase	Form	Return Type	Description
device name of <connection></connection>	Plain	<string></string>	Returns the name of the device associated with the specified connection. Win:5.0
firewall of <connection></connection>	Plain	<pre><internet connection="" firewall=""></internet></pre>	Returns the internet connection firewall object corresponding to the specified connection. Win:5.0
guid of <connection></connection>	Plain	<string></string>	Returns the globally-unique identifier (GUID) for the specified connection. Win:5.0
media type of <connection></connection>	Plain	<media type></media 	Returns the media type of for the specified connection. Win:5.0
name of <connection></connection>	Plain	<string></string>	Returns the name of the specified connection. Win:5.0
status of <connection></connection>	Plain	<pre><connection status=""></connection></pre>	Returns the status of the specified connection. Win:5.0

Connection Status

This object returns information about the status of your connections.

Key Phrase	Form	Description
connection status <integer></integer>	NumberedGlobal	Returns the connection status based on its integer value. This Inspector is included to take advantage of new (or undocumented) additions to the status values.
		Win:5.0
connection status authenticating	PlainGlobal	Returns the value NCS_AUTHENTICATING: The connection is waiting for authentication to occur.
		Win:5.0
connection status authentication failed	PlainGlobal	Returns the value NCS_AUTHENTICATION_FAILED: Authentication has failed on this connection.
		Win:5.0
connection status authentication succeeded	PlainGlobal	Returns the value NCS_AUTHENTICATION_SUCCEEDED: Authentication has succeeded on this connection.
		Win:5.0
connection status connected	PlainGlobal	Returns the value NCS_CONNECTED: The connection is in a connected state. Win:5.0
connection status connecting	PlainGlobal	Returns the value NCS_CONNECTING: The connection is in the process of connecting. Win:5.0
connection status disconnected	PlainGlobal	Returns the value NCS_DISCONNECTED: The connection is disconnected. Win:5.0
connection status disconnecting	PlainGlobal	Returns the value NCS_DISCONNECTING: The connection is in the process of disconnecting. Win:5.0

Key Phrase	Form	Description
connection status hardware disabled	PlainGlobal	Returns the value NCS_HARDWARE_DISABLED: The hardware for the connection is present, but is not enabled. Win:5.0
connection status hardware malfunction	PlainGlobal	Returns the value NCS_HARDWARE_MALFUNCTION: A malfunction has occurred in the hardware for the connection. Win:5.0
connection status media disconnected	PlainGlobal	Returns the value NCS_MEDIA_DISCONNECTED: The media, for example the network cable, is disconnected. Win:5.0
connection status no hardware present	PlainGlobal	Returns the value NCS_NO_HARDWARE_PRESENT: The hardware for the connection, for example network interface card (NIC), is not present.
		Win:6.0
status of <connection></connection>	Plain	Returns the current status of the connection. You can compare this status to the 'connection status' global objects, which act as constants. Some of the possible values include: NCS_DISCONNECTED: The connection is disconnected. NCS_CONNECTING: The connection is in the process of connecting. NCS_CONNECTED: The connection is in a connected state. NCS_DISCONNECTING: The connection is in the process of disconnecting. NCS_DISCONNECTING: The connection is in the process of disconnecting. NCS_HARDWARE_NOT_PRESENT: The hardware for the connection, for example network interface card (NIC), is not present. NCS_HARDWARE_DISABLED: The hardware for the connection is present, but is not enabled. NCS_HARDWARE_MALFUNCTION: A malfunction has occurred in the hardware for the connection. NCS_MEDIA_DISCONNECTED: The media, for example the network cable, is disconnected. NCS_AUTHENTICATING: The connection is waiting for authentication to occur. NCS_AUTHENTICATION_SUCCEEDED: Authentication has succeeded on this connection. NCS_AUTHENTICATION_FAILED: Authentication has failed on this connection. NCS_AUTHENTICATION_FAILED: Authentication has failed on this connection. NCS_REDIENTIALS_REQUIRED: Security credentials are required. Win:5.0

Key phrase	Return Type	Description
<pre><connection status=""> = <connection status=""></connection></connection></pre>	<boolean></boolean>	Compare the statuses of two connections. Win:5.0

Media Type

This object allows you to inspect the media type of your Internet Connection Firewall type connection, as returned in the NETCON_PROPERTIES structure.

Key Phrase	Form	Description
media type <integer></integer>	NumberedGlobal	Returns the media type based on its integer value. This Inspector is included to take advantage of new (or undocumented) additions to the media types. Win:5.0
media type bridge	PlainGlobal	Returns the value NCM_BRIDGE: Bridged connection. Win:5.0
media type direct	PlainGlobal	Returns the value NCM_DIRECT: Direct serial connection through a serial port. Win:5.0
media type isdn	PlainGlobal	Returns the value NCM_ISDN: Connection is through an integrated services digital network (ISDN) line. Win:5.0
media type lan	PlainGlobal	Returns the value NCM_LAN: Connection is to a local area network (LAN). Win:5.0
media type of <connection></connection>	Plain	Returns the media type of the specified connection: NCM_NONE: No media is present. NCM_DIRECT: Direct serial connection through a serial port. NCM_ISDN: Connection is through an integrated services digital network (ISDN) line. NCM_LAN: Connection is to a local area network (LAN). NCM_PHONE: Dial-up connection over a conventional phone line. NCM_TUNNEL: Virtual private network (VPN) connection. NCM_PPPOE: Point-to-Point protocol (PPP) over Ethernet. NCM_BRIDGE: Bridged connection. NCM_SHAREDACCESSHOST_LAN: Shared connection to a LAN. NCM_SHAREDACCESSHOST_RAS: Shared connection to a remote or wide area network (WAN). Win:5.0

Key Phrase	Form	Description
media type phone	PlainGlobal	Returns the value NCM_PHONE: Dial-up connection over a conventional phone line.
		Win:5.0
media type pppoe	PlainGlobal	Returns the value NCM_PPPOE: Point-to-Point protocol (PPP) over Ethernet.
		Win:5.0
media type shared access host lan	PlainGlobal	Returns the value NCM_SHAREDACCESSHOST_LAN: Shared connection to a LAN.
		Win:5.0
media type shared access host ras	PlainGlobal	Returns the value NCM_SHAREDACCESSHOST_RAS: Shared connection to a remote or wide area network (WAN).
		Win:5.0
media type tunnel	PlainGlobal	Returns the value NCM_TUNNEL: Virtual private network (VPN) connection.
		Win:5.0

Key phrase	Return Type	Description
<media type=""> = <media< td=""><td><boolean></boolean></td><td>Compares two media types.</td></media<></media>	<boolean></boolean>	Compares two media types.
type>		Win:5.0

Active Directory Local Computer

These are the Active Directory Inspectors for the local computer.

Creation Methods

Key Phrase	Form	Description
local computer of <active< td=""><td>Plain</td><td>Represents your computer within the Active Directory.</td></active<>	Plain	Represents your computer within the Active Directory.
directory server>		Win:4.1, Mac:5.1

Properties

Key Phrase	Form	Return Type	Description
distinguished name error message of <active directory="" local<br="">computer></active>	Plain	<string></string>	Active Directory error if unable to get the distinguished name (this is for debugging purposes). Win:4.1, Mac:5.1
distinguished name of <active directory="" local<br="">computer></active>	Plain	<string></string>	Returns the computer's fully qualified active directory name in the distinguished name format, for instance, 'CN=ALBATROSS, CN=Computers, DC=bigfix, DC=com'. Win:4.1, Mac:5.1

Examples

- distinguished name of local computer of active directory
- ▶ Returns CN=mymachinename,CN=Computers,DC=bigfix,DC=com.

Active Directory Server

These are the Active Directory Server Inspectors.

Creation Methods

Key Phrase	Form	Description
active directory		Returns an object containing the properties of the Active Directory to which your machine is attached.
		Win:4.1, Mac:5.1

Key Phrase	Form	Return Type	Description
local computer of <active directory<br="">server></active>	Plain	<active computer="" directory="" local=""></active>	Represents your computer within the Active Directory. Win:4.1, Mac:5.1

Microsoft IIS Metabase Objects

The Microsoft IIS Metabase is a repository for most IIS configuration values. The following inspectors retrieve information about the Microsoft IIS Metabase.

Metabase

The IIS metabase is similar in structure to the Windows Registry, providing hierarchal storage of IIS configuration properties for Web sites, virtual directories, FTP, etc.

Creation Methods

Key Phrase	Form	Description
metabase	PlainGlobal	Returns the IIS metabase object.
		Win:4.1

Properties

Key Phrase	Form	Return Type	Description
key <string> of <metabase></metabase></string>	Named	<metabase key></metabase 	Returns the named key of the metabase. Win:4.1
key of <metabase></metabase>	Plain	<metabase key></metabase 	Returns the root key of the IIS metabase. Win:4.1

Metabase Identifier

A metabase identifier is a unique numerical identifier which IIS recognizes internally.

Key Phrase	Form	Description
identifier of <metabase< td=""><td>Plain</td><td>Returns the metabase identifier of the specified value.</td></metabase<>	Plain	Returns the metabase identifier of the specified value.
value>		Win:4.1

Key Phrase	Form	Return Type	Description
<metabase identifier=""> as integer</metabase>	Cast	<integer></integer>	The integer value of the specified identifier. Use the Microsoft MetaEdit utility to find the integer value of an identifier. Win:4.1

Operators

Key phrase	Return Type	Description
<metabase identifier=""> =</metabase>	<boolean></boolean>	Compares two metabase identifiers for equality.
<metabase identifier=""></metabase>		Win:4.1

Metabase Key

Like a registry key, a metabase key contains named properties about the IIS metabase.

Creation Methods

Key Phrase	Form	Description
key <string> of <metabase key></metabase </string>	Named	Returns the named subkey of the specified metabase key. Win:4.1
key <string> of <metabase></metabase></string>	Named	Returns the named key of the metabase. Win:4.1
key of <metabase key=""></metabase>	Plain	Iterates the subkeys of the specified metabase key. Win:4.1
key of <metabase></metabase>	Plain	Returns the root key of the IIS metabase. Win:4.1

Key Phrase	Form	Return Type	Description
key <string> of <metabase key=""></metabase></string>	Named	<metabase key></metabase 	Returns the named subkey of the specified metabase key.
			Win:4.1

Key Phrase	Form	Return Type	Description
key of <metabase key=""></metabase>	Plain	<metabase key></metabase 	Iterates the subkeys of the specified metabase key. Win:4.1
name of <metabase key=""></metabase>	Plain	<string></string>	Returns the name of the specified metabase key. Win:4.1
value of <metabase key=""></metabase>	Plain	<metabase value></metabase 	Returns the value of the specified metabase key. Win:4.1

Examples

- names of keys of metabase
- Depending on the metabase configuration, returns the names of the metabase keys, such as:
- LM
- Schema.
- names of keys of key "/LM" of metabase
- Depending on the metabase configuration, returns the key names in the metabase "/LM" key, such as IISADMIN, W3SVC or MimeMap.

Metabase Type

The type identifier of the data associated with a metabase key value.

Creation Methods

Key Phrase	Form	Description
type of <metabase value=""></metabase>	Plain	Returns the type of the specified metabase value.
		Win:4.1

Key Phrase	Form	Return Type	Description
<metabase type=""> as integer</metabase>	Cast	<integer></integer>	Meanings same as registry types: • 1 = DWORD • 2 = STRING • 3 = BINARY • 4 = EXPANDSZ • 5 = MULTISZ. Win:4.1

Key Phrase	Form	Return Type	Description
<metabase type=""> as string</metabase>	Cast	<string></string>	Returns metabase types as strings: • "DWord" • "String" • "Binary" • "ExpandSz" • "MultiSz". Win:4.1

Key phrase	Return Type	Description
<metabase type=""> =</metabase>	<boolean></boolean>	Compares two metabase types for equality.
<metabase type=""></metabase>		Win:4.1

Metabase User Type

The user type is a DWORD that specifies how the property value is used. User types enable IIS to classify properties by application.

Creation Methods

Key Phrase	Form	Description
user type of <metabase value=""></metabase>	Plain	Returns the user type of the specified metabase value. Win:4.1

Key Phrase	Form	Return Type	Description
<metabase type="" user=""> as integer</metabase>	Cast	<integer></integer>	Returns the metabase user type as an integer: • 2 = Server • 2 = File • 100 = WAM • 200 = ASP App. Win:4.1

Key Phrase	Form	Return Type	Description
<metabase type="" user=""> as string</metabase>	Cast	<string></string>	Returns the metabase user type as a string: • "Server" • "File" • "WAM" • "ASP App" • "(Other)".

Key phrase	Return Type	Description
<metabase type="" user=""> =</metabase>	<boolean></boolean>	Compares two metabase user types for equality.
<metabase type="" user=""></metabase>		Win:4.1

Metabase Value

This Inspector is used to access values stored in an IIS metabase key. The type of the data stored in the value determines what casting operations are allowed. There are several casting Inspectors that you can use to extract values from the registry.

Creation Methods

Key Phrase	Form	Description
value of <metabase key=""></metabase>	Plain	Returns the value of the specified metabase key.
		Win:4.1

Key Phrase	Form	Return Type	Description
<metabase value=""> as integer</metabase>	Cast	<integer></integer>	Returns the integer value of the metabase value. Win:4.1
<metabase value=""> as string</metabase>	Cast	<string></string>	Returns the string value of the metabase value. Win:4.1
identifier of <metabase value=""></metabase>	Plain	<metabase identifier=""></metabase>	Returns the metabase identifier of the specified value. Win:4.1

Key Phrase	Form	Return Type	Description
inherit attribute of <metabase value=""></metabase>	Plain	<boolean></boolean>	Returns TRUE if the specified metabase value has the inherit attribute set. Win:4.1
insert path attribute of <metabase value=""></metabase>	Plain	<boolean></boolean>	Returns TRUE if the specified metabase value has the insert path attribute set. Win:4.1
reference attribute of <metabase value=""></metabase>	Plain	<boolean></boolean>	Returns TRUE if the specified metabase value has the reference attribute set. Win:4.1
secure attribute of <metabase value=""></metabase>	Plain	<boolean></boolean>	Returns TRUE if the specified metabase value has the secure attribute set. Win:4.1
type of <metabase value=""></metabase>	Plain	<metabase type></metabase 	Returns the type of the specified metabase value. Win:4.1
user type of <metabase value=""></metabase>	Plain	<metabase user type></metabase 	Returns the user type of the specified metabase value. Win:4.1
volatile attribute of <metabase value=""></metabase>	Plain	<boolean></boolean>	Returns TRUE if the specified metabase value has the volatile attribute set. Win:4.1

Examples

- inherit attributes of values of key "/Schema" of metabase
- Returns a boolean True or False depending on the inherit attributes of each sub-key in the specified key of the metabase.
- \blacksquare volatile attributes of values of key "/LM" of metabase
- ▶ Returns a boolean True or False depending on the volatile attributes of each sub-key in the specified key of the metabase.

Introspectors

These Inspectors look into the currently installed relevance engine to retrieve information about specific Inspectors.

Type

Some Inspectors look at the Relevance language itself, inspecting the Inspectors, so to speak. There are several aspects to view, including the types, properties, casts and operators. This group of Inspectors looks at the various type options available from the Relevance language.

Key Phrase	Form	Description
direct object type of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	The type (if any) required after the keyword "of" in an expression using the property.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
index type of <pre><pre>property></pre></pre>	Plain	The type (if any) required before or without the keyword "of" in an expression using the property.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
left operand type of sinary	Plain	The type required before the operator in an expression.
operator>		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
operand type of <cast></cast>	Plain	The type required before the keyword "as" in an expression using the cast.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
operand type of <unary< td=""><td>Plain</td><td>The type required in an expression using the operator.</td></unary<>	Plain	The type required in an expression using the operator.
operator>		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
parent of <type></type>	Plain	The types (if any) whose properties are inherited by this type.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
result type of <binary< td=""><td>Plain</td><td>The type that the operator produces.</td></binary<>	Plain	The type that the operator produces.
operator>		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
result type of <pre><pre>property></pre></pre>	Plain	The type that the property produces.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
result type of <unary< td=""><td>Plain</td><td>The type that the operator produces.</td></unary<>	Plain	The type that the operator produces.
operator>		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
right operand type of	Plain	The type required after the operator in an expression.

Key Phrase	Form	Description
 		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
type	PlainGlobal	The inspector types.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
type <string></string>	NamedGlobal	The type with the given name.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
<type> as string</type>	Cast	<string></string>	A string indicating the type.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
cast from of <type></type>	Plain	<cast></cast>	Returns the casts that can be created from the specified <type>.</type>
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
name of <type></type>	Plain	<string></string>	A string naming the type.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
parent of <type></type>	Plain	<type></type>	The types (if any) whose properties are inherited by this type.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
property <string> of <type></type></string>	Named	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Returns the Inspector property of the specified string and type. Typically there is more than one property, so this is often used in the plural.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
property of <type></type>	Plain	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Returns the Inspector property of the specified type. Typically there is more than one property, so this is often used in the plural.
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
property returning <type> of <type></type></type>	Indexed	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Returns Inspectors of the form <type> of <type>. Typically there is more than one property, so this is often used in the plural.</type></type>
			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
size of <type></type>	Plain	<integer></integer>	The number of bytes used in the internal representation of an object of the given type.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Key phrase	Return Type	Description
<type> = <type></type></type>	<boolean></boolean>	Returns TRUE if both expressions denote the same type.
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Examples

- properties "lines" of type "file"
- ▶ Returns the various line properties of the "file" type.
- properties returning (type "file line") of type "file"
- Returns the list of properties that return the <type> specified given an object of type <type>.

Property

Some Inspectors look at the Relevance language itself, inspecting the Inspectors, so to speak. There are several aspects to view, including the types, properties, casts and operators. This group of Inspectors looks at the properties available from the Relevance language.

Key Phrase	Form	Description
property	PlainGlobal	The inspectors invoked with phrases, but without the keyword "as".
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
property <string></string>	NamedGlobal	Returns the first inspector property whose name matches the given string. Note that there may be more than one property with a given name.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
property <string> of <type></type></string>	Named	Returns the Inspector property of the specified string and type. Typically there is more than one property, so this is often used in the plural.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
property of <type></type>	Plain	Returns the Inspector property of the specified type. Typically there is more than one property, so this is typically used in the plural. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Description
property returning <type></type>	IndexedGlobal	Produces a list of the Inspector properties that return the "file" type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
property returning <type> of <type></type></type>	Indexed	Returns Inspectors of the form <type> of <type>. Typically there is more than one property, so this is often used in the plural. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</type></type>

Key Phrase	Form	Return Type	Description
<pre><pre><pre><pre>property> as string</pre></pre></pre></pre>	Cast	<string></string>	A short description of the use of the property.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
direct object type of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<type></type>	The type (if any) required after the keyword "of" in an expression using the property.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
index type of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<type></type>	The type (if any) required before or without the keyword "of" in an expression using the property.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
multivalued of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<boolean></boolean>	Can the property have more than one value for a single input?.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
plural name of	Plain	<string></string>	The name of the property, in the plural.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
result type of	Plain	<type></type>	The type that the property produces.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
singular name of	Plain	<string></string>	The name of the property, in the singular.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
usual name of	Plain	<string></string>	Returns the usual name of the specified property.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Examples

- property "first matches"
- ▶ Returns the list of properties accessed by the string provided.

- usual name of property "booleans"
- Returns "boolean".

Binary Operator

Some Inspectors look at the Relevance language itself, inspecting the Inspectors, so to speak. There are several aspects to view, including the types, properties, casts and operators. This group of Inspectors looks at the various binary operators available from the Relevance language.

Creation Methods

Key Phrase	Form	Description
binary operator	PlainGlobal	The inspectors that have two parameters, and are invoked with punctuation marks or reserved phrases. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
binary operator <string></string>	NamedGlobal	Typically used in the plural, returns the various possible binary inspectors that use the specified operators. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
binary operator returning <type></type>	IndexedGlobal	Returns a list of binary operators that return the specified type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
 	Cast	<string></string>	A short description of the use of the operator. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
left operand type of dinary operator>	Plain	<type></type>	The type required before the operator in an expression. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
name of operator>	Plain	<string></string>	A phrase naming the operator. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
result type of operator>	Plain	<type></type>	The type that the operator produces. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
right operand type of dinary operator>	Plain	<type></type>	The type required after the operator in an expression. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
symbol of operator>	Plain	<string></string>	A phrase or punctuation mark used to invoke the operator.
			Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Examples

- binary operators "&"
- ▶ Returns a list of all the concatentation inspectors available.

Unary Operator

Some Inspectors look at the Relevance language itself, inspecting the Inspectors, so to speak. There are several aspects to view, including the types, properties, casts and operators. This group of Inspectors looks at the various unary operators available from the Relevance language.

Creation Methods

Key Phrase	Form	Description
unary operator	PlainGlobal	The inspectors that have one parameter, and are invoked with punctuation marks or reserved phrases. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
unary operator <string></string>	NamedGlobal	Typically used in the plural, this inspector returns a list of objects that use the specified operator. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0
unary operator returning <type></type>	IndexedGlobal	Returns a list of the unary operator inspectors (such as negative) that return the specified type. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<unary operator=""> as string</unary>	Cast	<string></string>	A short description of the use of the operator. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
name of <unary operator=""></unary>	Plain	<string></string>	A phrase naming the operator. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Key Phrase	Form	Return Type	Description
operand type of <unary operator=""></unary>	Plain	<type></type>	The type required in an expression using the operator. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
result type of <unary operator=""></unary>	Plain	<type></type>	The type that the operator produces. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
symbol of <unary operator=""></unary>	Plain	<string></string>	A phrase or punctuation mark used to invoke the operator. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Examples

- unary operators "-"
- Returns a list of the objects that can be made negative, such as integers, floating point numbers, etc.
- unary operators returning (type "hertz")
- Returns <hertz>: hertz, the only unary operator that returns a hertz object.

Cast

Some Inspectors look at the Relevance language itself, inspecting the Inspectors, so to speak. There are several aspects to view, including the types, properties, casts and operators. This group of Inspectors looks at the various casting operations available from the Relevance language.

Key Phrase	Form	Description
cast	PlainGlobal	The inspectors invoked using the keyword "as.".
		Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
cast <string></string>	NamedGlobal	Returns a list of the objects that can be cast into the type specified by <string>. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</string>
cast from of <type></type>	Plain	Returns the casts that can be created from the specified <type>. Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0</type>

Key Phrase	Form	Description
cast returning <type></type>	IndexedGlobal	Returns a list of the objects that can be cast into the specified type.
		Win:6.0, Lin:6.0, Sol:6.0, HPUX:6.0, AIX:6.0

Key Phrase	Form	Return Type	Description
<cast> as string</cast>	Cast	<string></string>	A short description of the use of the cast. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
name of <cast></cast>	Plain	<string></string>	The phrase used after the keyword "as" in an expression using the cast. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1
operand type of <cast></cast>	Plain	<type></type>	The type required before the keyword "as" in an expression using the cast. Win:5.1, Lin:4.1, Sol:4.1, HPUX:4.1, AIX:4.1, Mac:4.1

Examples

- casts "integer"
- ▶ Returns a list of the objects that can be cast as integers, eg., <string> as integer, <integer> as integer, etc.
- casts returning (type "integer")
- Returns.

Key Phrases (Inspectors)

This chapter provides an alphabetical list of the Inspector keywords and their casting operators. Both lists include the context object type (From an object), and the resulting object type (Creates an object). These lists are not all-inclusive; they only include those Inspectors that are relevant to the context of the current Guide.

Key phrases

This is a list of the key phrases relevant to this document, sorted alphabetically.

Key Phrase	Plural	Creates a	From a	Form
absolute value of <hertz></hertz>	absolute values	<hertz></hertz>	<hertz></hertz>	Plain
absolute value of <integer></integer>	absolute values	<integer></integer>	<integer></integer>	Plain
absolute value of <time interval=""></time>	absolute values	<time interval></time 	<time interval=""></time>	Plain
action <integer> of <bes fixlet=""></bes></integer>	actions	 des fixlet action>	 des fixlet>	Numbered
action <string> of <bes fixlet=""></bes></string>	actions	 	 des fixlet>	Named
action dependency of <bes action=""></bes>	action dependencies	 bes action>	 des action>	Plain
action of <bes action="" result=""></bes>	actions	 	 	Plain
action of <bes fixlet=""></bes>	actions	 	 des fixlet>	Plain
action result of <bes computer=""></bes>	action results	 	 computer>	Plain
action script of <bes action=""></bes>	action scripts	<string></string>	 bes action>	Plain
action script type of <bes action=""></bes>	action script types	<string></string>	 bes action>	Plain
activation of <bes fixlet=""></bes>	activations	 activation>	 des fixlet>	Plain
active flag of <bes activation=""></bes>	active flags	<boolean></boolean>	 ctivation>	Plain
all computer count	all computer counts	<historical computer="" count=""></historical>	<world></world>	PlainGlobal
all fixlet count	all fixlet counts	<historical count="" fixlet=""></historical>	<world></world>	PlainGlobal
analysis flag of <bes fixlet=""></bes>	analysis flags	<boolean></boolean>	 /bes fixlet>	Plain

Key Phrase	Plural	Creates a	From a	Form
analysis flag of <bes property=""></bes>	analysis flags	<boolean></boolean>	 bes property>	Plain
analysis of <bes activation=""></bes>	analyses	 bes fixlet>	 activation>	Plain
applicability relevance of <bes action=""></bes>	applicability relevances	<string></string>	 bes action>	Plain
applicable computer count of <bes fixlet=""></bes>	applicable computer counts	<integer></integer>	 des fixlet>	Plain
applicable computer of <bes fixlet=""></bes>	applicable computers	 computer>	 des fixlet>	Plain
apply count of <bes action="" result=""></bes>	apply counts	<integer></integer>	<pre><bes action="" result=""></bes></pre>	Plain
april	aprils	<month></month>	<world></world>	PlainGlobal
april <integer></integer>	aprils	<day of="" year=""></day>	<world></world>	NumberedGlobal
april <integer> of <integer></integer></integer>	aprils	<date></date>	<integer></integer>	Numbered
april of <integer></integer>	aprils	<month and="" year=""></month>	<integer></integer>	Plain
attribute <integer> of <xml dom="" node=""></xml></integer>	attributes	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Numbered
attribute <string> of <xml dom="" node=""></xml></string>	attributes	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Named
attribute of <xml dom="" node=""></xml>	attributes	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
august	augusts	<month></month>	<world></world>	PlainGlobal
august <integer></integer>	augusts	<day of="" year=""></day>	<world></world>	NumberedGlobal
august <integer> of <integer></integer></integer>	augusts	<date></date>	<integer></integer>	Numbered
august of <integer></integer>	augusts	<month and="" year=""></month>	<integer></integer>	Plain
baseline flag of <bes fixlet=""></bes>	baseline flags	<boolean></boolean>	 bes fixlet>	Plain
bes action	bes actions	 bes action>	<world></world>	PlainGlobal
bes action status constrained	bes action statuses constrained	 status>	<world></world>	PlainGlobal
bes action status download failed	bes action statuses download failed	 	<world></world>	PlainGlobal
bes action status error	bes action statuses error	 	<world></world>	PlainGlobal
bes action status evaluating	bes action statuses evaluating	 status>	<world></world>	PlainGlobal

Key Phrase	Plural	Creates a	From a	Form
bes action status expired	bes action statuses expired	 	<world></world>	PlainGlobal
bes action status failed	bes action statuses failed	 	<world></world>	PlainGlobal
bes action status fixed	bes action statuses fixed	 	<world></world>	PlainGlobal
bes action status invalid signature	bes action statuses invalid signature	 	<world></world>	PlainGlobal
bes action status irrelevant	bes action statuses irrelevant	 status>	<world></world>	PlainGlobal
bes action status locked	bes action statuses locked	 	<world></world>	PlainGlobal
bes action status pending downloads	bes action statuses pending downloads	 	<world></world>	PlainGlobal
bes action status pending login	bes action statuses pending login	 	<world></world>	PlainGlobal
bes action status pending message	bes action statuses pending message	 	<world></world>	PlainGlobal
bes action status pending restart	bes action statuses pending restart	 status>	<world></world>	PlainGlobal
bes action status postponed	bes action statuses postponed	 status>	<world></world>	PlainGlobal
bes action status running	bes action statuses running	 	<world></world>	PlainGlobal
bes action status unreported	bes action statuses unreported	 status>	<world></world>	PlainGlobal
bes action status user cancelled	bes action statuses user cancelled	 status>	<world></world>	PlainGlobal
bes action status waiting	bes action statuses waiting	 status>	<world></world>	PlainGlobal
bes computer	bes computers	 computer>	<world></world>	PlainGlobal
bes custom site	bes custom sites	 bes custom site>	<world></world>	PlainGlobal
bes fixlet	bes fixlets	 bes fixlet>	<world></world>	PlainGlobal
bes property	bes properties	 bes property>	<world></world>	PlainGlobal
bes property <string></string>	bes properties	 bes property>	<world></world>	NamedGlobal
			1	

Key Phrase	Plural	Creates a	From a	Form
bes user	bes users	 bes user>	<world></world>	PlainGlobal
bes wizard	bes wizards	 bes wizard>	<world></world>	PlainGlobal
best activation of <bes fixlet=""></bes>	best activations	 activation>	 des fixlet>	Plain
bin at <time> of <statistic range=""></statistic></time>	bins at	<statistical bin></statistical 	<statistic range></statistic 	Indexed
bin of <statistic range=""></statistic>	bins	<statistical bin></statistical 	<statistic range></statistic 	Plain
binary operator <string></string>	binary operators	 	<world></world>	NamedGlobal
binary operator returning <type></type>	binary operators returning	 	<world></world>	IndexedGlobal
bit <integer></integer>	bits	 bit set>	<world></world>	NumberedGlobal
bit <integer> of <bit set=""></bit></integer>	bits	<boolean></boolean>	 bit set>	Numbered
bit <integer> of <integer></integer></integer>	bits	<boolean></boolean>	<integer></integer>	Numbered
bit set <string></string>	bit sets	 bit set>	<world></world>	NamedGlobal
body of <bes fixlet=""></bes>	bodies	<html></html>	 bes fixlet>	Plain
boolean <string></string>	booleans	<boolean></boolean>	<world></world>	NamedGlobal
case insensitive regex <string></string>	case insensitive regexes	<regular expression></regular 	<world></world>	NamedGlobal
case insensitive regular expression <string></string>	case insensitive regular expressions	<regular expression></regular 	<world></world>	NamedGlobal
cast <string></string>	casts	<cast></cast>	<world></world>	NamedGlobal
cast from of <type></type>	casts from	<cast></cast>	<type></type>	Plain
cast returning <type></type>	casts returning	<cast></cast>	<world></world>	IndexedGlobal
category of <bes fixlet=""></bes>	categories	<string></string>	 bes fixlet>	Plain
character <integer></integer>	characters	<string></string>	<world></world>	NumberedGlobal
character <integer> of <string></string></integer>	characters	<substring></substring>	<string></string>	Numbered
character of <string></string>	characters	<substring></substring>	<string></string>	Plain
charset of <bes fixlet=""></bes>	charsets	<string></string>	 bes fixlet>	Plain
charset of <bes wizard=""></bes>	charsets	<string></string>	 bes wizard>	Plain
child node <integer> of <xml dom="" node=""></xml></integer>	child nodes	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Numbered
child node of <xml dom="" node=""></xml>	child nodes	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
components xml of <bes fixlet=""></bes>	components xmls	<string></string>	 bes fixlet>	Plain

Key Phrase	Plural	Creates a	From a	Form
computer group flag of <bes action=""></bes>	computer group flags	<boolean></boolean>	 bes action>	Plain
computer of <bes action="" result=""></bes>	computers	 computer>	<pre><bes action="" result=""></bes></pre>	Plain
computer of <bes fixlet="" result=""></bes>	computers	 bes computer>	 	Plain
computer of <bes property="" result=""></bes>	computers	 bes computer>	<pre><bes property="" result=""></bes></pre>	Plain
concatenation <string> of <string></string></string>	concatenations	<string></string>	<string></string>	Named
concatenation of <string></string>	concatenations	<string></string>	<string></string>	Plain
conjunction of <boolean></boolean>	conjunctions	<boolean></boolean>	<boolean></boolean>	Plain
constrain by property name of <bes action=""></bes>	constrain by property names	<string></string>	 bes action>	Plain
constrain by property relation of <bes action=""></bes>	constrain by property relations	<string></string>	 bes action>	Plain
constrain by property value of <bes action=""></bes>	constrain by property values	<string></string>	 des action>	Plain
content id of <bes action="" fixlet=""></bes>	content ids	<string></string>	<pre><bes action="" fixlet=""></bes></pre>	Plain
correlation coefficient of <exponential projection=""></exponential>	correlation coefficients	<floating point=""></floating>	<exponential projection=""></exponential>	Plain
correlation coefficient of ear projection>	correlation coefficients	<floating point=""></floating>	linear projection>	Plain
count map of <historical count="" fixlet=""></historical>	count maps	<fixlet count="" pair=""></fixlet>	<historical count="" fixlet=""></historical>	Plain
count of <fixlet count="" pair=""></fixlet>	counts	<integer></integer>	<fixlet count="" pair=""></fixlet>	Plain
count of <historical computer="" count=""></historical>	counts	<integer></integer>	<pre><historical computer="" count=""></historical></pre>	Plain
creation date of <bes custom="" site=""></bes>	creation dates	<time></time>	 	Plain
creation time of <bes user=""></bes>	creation times	<time></time>	 bes user>	Plain
creator of <bes custom="" site=""></bes>	creators	 	 	Plain
current analysis	current analyses	 des fixlet>	<world></world>	PlainGlobal
current computer	current computers	 computer>	<world></world>	PlainGlobal
current console user	current console users	 bes user>	<world></world>	PlainGlobal
current date	current dates	<date></date>	<world></world>	PlainGlobal

Key Phrase	Plural	Creates a	From a	Form
current day_of_month	current days_of_month	<day month="" of=""></day>	<world></world>	PlainGlobal
current day_of_week	current days_of_week	<day of<br="">week></day>	<world></world>	PlainGlobal
current day_of_year	current days_of_year	<day of="" year=""></day>	<world></world>	PlainGlobal
current fixlet	current fixlets	 bes fixlet>	<world></world>	PlainGlobal
current month	current months	<month></month>	<world></world>	PlainGlobal
current month_and_year	current months_and_years	<month and="" year=""></month>	<world></world>	PlainGlobal
current task	current tasks	 bes fixlet>	<world></world>	PlainGlobal
current wizard	current wizards	 bes wizard>	<world></world>	PlainGlobal
current year	current years	<year></year>	<world></world>	PlainGlobal
custom content flag of <bes user=""></bes>	custom content flags	<boolean></boolean>	 bes user>	Plain
custom flag of <bes fixlet=""></bes>	custom flags	<boolean></boolean>	 bes fixlet>	Plain
custom flag of <bes property=""></bes>	custom flags	<boolean></boolean>	 bes property>	Plain
custom site flag of <bes fixlet=""></bes>	custom site flags	<boolean></boolean>	 bes fixlet>	Plain
custom site of <bes fixlet=""></bes>	custom sites	 	 	Plain
custom success relevance of <bes action=""></bes>	custom success relevances	<string></string>	 bes action>	Plain
eve id list of <bes fixlet=""></bes>	eve id lists	<string></string>	 bes fixlet>	Plain
database id of <bes action=""></bes>	database ids	<integer></integer>	 bes action>	Plain
database id of <bes activation=""></bes>	database ids	<integer></integer>	 activation>	Plain
database id of <bes computer=""></bes>	database ids	<integer></integer>	 bes computer>	Plain
database id of <bes property=""></bes>	database ids	<integer></integer>	 bes property>	Plain
database id of <bes wizard=""></bes>	database ids	<integer></integer>	 bes wizard>	Plain
database id of <historical computer="" count=""></historical>	database ids	<integer></integer>	<pre><historical computer="" count=""></historical></pre>	Plain
database id of <historical count="" fixlet=""></historical>	database ids	<integer></integer>	<historical count="" fixlet=""></historical>	Plain
database name of <bes action=""></bes>	database names	<string></string>	 des action>	Plain
database name of <bes computer=""></bes>	database names	<string></string>	 bes computer>	Plain

Key Phrase	Plural	Creates a	From a	Form
database name of <bes wizard=""></bes>	database names	<string></string>	 bes wizard>	Plain
date <string></string>	dates	<date></date>	<world></world>	NamedGlobal
date <time zone=""> of <time></time></time>	dates	<date></date>	<time></time>	Indexed
date range end of <bes action=""></bes>	date range ends	<date></date>	 des action>	Plain
date range start of <bes action=""></bes>	date range starts	<date></date>	 des action>	Plain
day	days	<time interval></time 	<world></world>	PlainGlobal
day of <day of="" year=""></day>	days	<day month="" of=""></day>	<day of="" year=""></day>	Plain
day_of_month <integer></integer>	days_of_month	<day month="" of=""></day>	<world></world>	NumberedGlobal
day_of_month <string></string>	days_of_month	<day month="" of=""></day>	<world></world>	NamedGlobal
day_of_month of <date></date>	days_of_month	<day month="" of=""></day>	<date></date>	Plain
day_of_week <string></string>	days_of_week	<day of="" week=""></day>	<world></world>	NamedGlobal
day_of_week of <date></date>	days_of_week	<day of="" week=""></day>	<date></date>	Plain
day_of_year of <date></date>	days_of_year	<day of="" year=""></day>	<date></date>	Plain
december	decembers	<month></month>	<world></world>	PlainGlobal
december <integer></integer>	decembers	<day of="" year=""></day>	<world></world>	NumberedGlobal
december <integer> of <integer></integer></integer>	decembers	<date></date>	<integer></integer>	Numbered
december of <integer></integer>	decembers	<month and="" year=""></month>	<integer></integer>	Plain
default action of <bes fixlet=""></bes>	default actions	 bes fixlet action>	 bes fixlet>	Plain
default flag of <bes property=""></bes>	default flags	<boolean></boolean>	 bes property>	Plain
default page name of <bes wizard=""></bes>	default page names	<string></string>	 bes wizard>	Plain
definition of <bes property=""></bes>	definitions	<string></string>	 bes property>	Plain
description of <bes custom="" site=""></bes>	descriptions	<string></string>	 	Plain
detailed status of <bes action="" result=""></bes>	detailed statuses	<string></string>	<pre><bes action="" result=""></bes></pre>	Plain
dialog flag of <bes wizard=""></bes>	dialog flags	<boolean></boolean>	 bes wizard>	Plain
digest file name of <bes fixlet=""></bes>	digest file names	<string></string>	 bes fixlet>	Plain

Key Phrase	Plural	Creates a	From a	Form
direct object type of <pre><pre>property></pre></pre>	direct object types	<type></type>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain
disjunction of <boolean></boolean>	disjunctions	<boolean></boolean>	<boolean></boolean>	Plain
divided by zero of <floating point=""></floating>	divided by zeroes	<boolean></boolean>	<floating point=""></floating>	Plain
document flag of <bes wizard=""></bes>	document flags	<boolean></boolean>	 bes wizard>	Plain
download size of <bes fixlet=""></bes>	download sizes	<integer></integer>	 bes fixlet>	Plain
end date of <bes action=""></bes>	end dates	<date></date>	 bes action>	Plain
end flag of <bes action=""></bes>	end flags	<boolean></boolean>	 bes action>	Plain
end of <statistic range=""></statistic>	ends	<time></time>	<statistic range></statistic 	Plain
end of <statistical bin=""></statistical>	ends	<time></time>	<statistical bin></statistical 	Plain
end of <substring></substring>	ends	<string position=""></string>	<substring></substring>	Plain
end of <time range=""></time>	ends	<time></time>	<time range=""></time>	Plain
end time_of_day of <bes action=""></bes>	end times_of_day	<time day="" of=""></time>	 bes action>	Plain
error <string></string>	errors	<undefined></undefined>	<world></world>	NamedGlobal
error flag of <bes property="" result=""></bes>	error flags	<boolean></boolean>	<pre><bes property="" result=""></bes></pre>	Plain
error message of <bes property="" result=""></bes>	error messages	<string></string>	<pre><bes property="" result=""></bes></pre>	Plain
evaluation period of <bes property=""></bes>	evaluation periods	<time interval></time 	 bes property>	Plain
expiration flag of <bes action=""></bes>	expiration flags	<boolean></boolean>	 bes action>	Plain
expiration time of <bes action=""></bes>	expiration times	<time></time>	 bes action>	Plain
exponential fit of <statistical bin=""></statistical>	exponential fits	<pre><exponential projection=""></exponential></pre>	<statistical bin></statistical 	Plain
extrapolation <time> of <exponential projection=""></exponential></time>	extrapolations	<floating point=""></floating>	<pre><exponential projection=""></exponential></pre>	Indexed
extrapolation <time> of extrapolation></time>	extrapolations	<floating point=""></floating>	linear projection>	Indexed
failure rate of <statistical bin=""></statistical>	failure rates	<floating point=""></floating>	<statistical bin></statistical 	Plain
false	falses	<boolean></boolean>	<world></world>	PlainGlobal
february	februarys	<month></month>	<world></world>	PlainGlobal
february <integer></integer>	februarys	<day of="" year=""></day>	<world></world>	NumberedGlobal
february <integer> of <integer></integer></integer>	februarys	<date></date>	<integer></integer>	Numbered

Key Phrase	Plural	Creates a	From a	Form
february of <integer></integer>	februarys	<month and="" year=""></month>	<integer></integer>	Plain
final part <time interval=""> of <time range=""></time></time>	final parts	<time range=""></time>	<time range=""></time>	Indexed
finite of <floating point=""></floating>	finites	<boolean></boolean>	<floating point=""></floating>	Plain
first <day of="" week=""> of <month and="" year=""></month></day>	firsts	<date></date>	<month and="" year=""></month>	Indexed
first <integer> of <string></string></integer>	firsts	<substring></substring>	<string></string>	Numbered
first <string> of <string></string></string>	firsts	<substring></substring>	<string></string>	Named
first became relevant of <bes fixlet="" result=""></bes>	first became relevants	<time></time>	 	Plain
first child of <xml dom="" node=""></xml>	first children	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
first friday of <month and="" year=""></month>	first fridays	<date></date>	<month and="" year=""></month>	Plain
first match <regular expression=""> of <string></string></regular>	first matches	<regular expression match></regular 	<string></string>	Indexed
first monday of <month and="" year=""></month>	first mondays	<date></date>	<month and="" year=""></month>	Plain
first saturday of <month and="" year=""></month>	first saturdays	<date></date>	<month and="" year=""></month>	Plain
first sunday of <month and="" year=""></month>	first sundays	<date></date>	<month and="" year=""></month>	Plain
first thursday of <month and="" year=""></month>	first thursdays	<date></date>	<month and="" year=""></month>	Plain
first tuesday of <month and="" year=""></month>	first tuesdays	<date></date>	<month and="" year=""></month>	Plain
first wednesday of <month and="" year=""></month>	first wednesdays	<date></date>	<month and="" year=""></month>	Plain
fixlet <integer> of <bes site=""></bes></integer>	fixlets	 bes fixlet>	<bes site=""></bes>	Numbered
fixlet flag of <bes fixlet=""></bes>	fixlet flags	<boolean></boolean>	 bes fixlet>	Plain
fixlet of <bes fixlet="" result=""></bes>	fixlets	 des fixlet>	 	Plain
fixlet of <bes site=""></bes>	fixlets	 bes fixlet>	<bes site=""></bes>	Plain
floating point <string></string>	floating points	<floating point=""></floating>	<world></world>	NamedGlobal
following text of <string position=""></string>	following texts	<substring></substring>	<string position=""></string>	Plain

Key Phrase	Plural	Creates a	From a	Form
following text of <substring></substring>	following texts	<substring></substring>	<substring></substring>	Plain
friday	fridays	<day of<br="">week></day>	<world></world>	PlainGlobal
geometric mean of <statistical bin=""></statistical>	geometric means	<floating point=""></floating>	<statistical bin></statistical 	Plain
ghz	ghzs	<hertz></hertz>	<world></world>	PlainGlobal
globally visible flag of <bes fixlet=""></bes>	globally visible flags	<boolean></boolean>	 bes fixlet>	Plain
greatest hz	greatest hzs	<hertz></hertz>	<world></world>	PlainGlobal
greatest integer	greatest integers	<integer></integer>	<world></world>	PlainGlobal
greatest time interval	greatest time intervals	<time interval></time 	<world></world>	PlainGlobal
group flag of <bes fixlet=""></bes>	group flags	<boolean></boolean>	 bes fixlet>	Plain
group member flag of <bes action=""></bes>	group member flags	<boolean></boolean>	 des action>	Plain
hexadecimal integer <string></string>	hexadecimal integers	<integer></integer>	<world></world>	NamedGlobal
hexadecimal string <string></string>	hexadecimal strings	<string></string>	<world></world>	NamedGlobal
hidden bes action	hidden bes actions	 bes action>	<world></world>	PlainGlobal
hidden flag of <bes action=""></bes>	hidden flags	<boolean></boolean>	 bes action>	Plain
hour	hours	<time interval=""></time>	<world></world>	PlainGlobal
hour_of_day of <time day="" of="" time="" with="" zone=""></time>	hours_of_day	<integer></integer>	<time day<br="" of="">with time zone></time>	Plain
hour_of_day of <time day="" of=""></time>	hours_of_day	<integer></integer>	<time day="" of=""></time>	Plain
hz	hzs	<hertz></hertz>	<world></world>	PlainGlobal
id of <bes action=""></bes>	ids	<integer></integer>	 des action>	Plain
id of <bes activation=""></bes>	ids	<integer></integer>	 activation>	Plain
id of <bes computer=""></bes>	ids	<integer></integer>	 computer>	Plain
id of <bes fixlet=""></bes>	ids	<integer></integer>	 bes fixlet>	Plain
id of <bes property=""></bes>	ids	<integer></integer>	 bes property>	Plain
id of <bes site=""></bes>	ids	<integer></integer>	 bes site>	Plain
in console context	in console contexts	<boolean></boolean>	<world></world>	PlainGlobal
in web reports context	in web reports contexts	<boolean></boolean>	<world></world>	PlainGlobal
index type of <pre>property></pre>	index types	<type></type>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain

Key Phrase	Plural	Creates a	From a	Form
inexact of <floating point=""></floating>	inexacts	<boolean></boolean>	<floating point=""></floating>	Plain
infinite of <floating point=""></floating>	infinites	<boolean></boolean>	<floating point=""></floating>	Plain
initial part <time interval=""> of <time range=""></time></time>	initial parts	<time range=""></time>	<time range=""></time>	Indexed
integer <integer></integer>	integers	<integer></integer>	<world></world>	NumberedGlobal
integer <string></string>	integers	<integer></integer>	<world></world>	NamedGlobal
integer ceiling of <floating point=""></floating>	integer ceilings	<integer></integer>	<floating point=""></floating>	Plain
integer floor of <floating point=""></floating>	integer floors	<integer></integer>	<floating point=""></floating>	Plain
invalid of <floating point=""></floating>	invalids	<boolean></boolean>	<floating point=""></floating>	Plain
issuer of <bes action=""></bes>	issuers	 bes user>	 bes action>	Plain
issuer of <bes activation=""></bes>	issuers	 /bes user>	 des activation>	Plain
issuer of <bes fixlet=""></bes>	issuers	 bes user>	 bes fixlet>	Plain
january	januarys	<month></month>	<world></world>	PlainGlobal
january <integer></integer>	januarys	<day of="" year=""></day>	<world></world>	NumberedGlobal
january <integer> of <integer></integer></integer>	januarys	<date></date>	<integer></integer>	Numbered
january of <integer></integer>	januarys	<month and="" year=""></month>	<integer></integer>	Plain
javascript array <string> of <statistical bin=""></statistical></string>	javascript arrays	<html></html>	<statistical bin></statistical 	Named
july	julys	<month></month>	<world></world>	PlainGlobal
july <integer></integer>	julys	<day of="" year=""></day>	<world></world>	NumberedGlobal
july <integer> of <integer></integer></integer>	julys	<date></date>	<integer></integer>	Numbered
july of <integer></integer>	julys	<month and="" year=""></month>	<integer></integer>	Plain
june	junes	<month></month>	<world></world>	PlainGlobal
june <integer></integer>	junes	<day of="" year=""></day>	<world></world>	NumberedGlobal
june <integer> of <integer></integer></integer>	junes	<date></date>	<integer></integer>	Numbered
june of <integer></integer>	junes	<month and="" year=""></month>	<integer></integer>	Plain
khz	khzs	<hertz></hertz>	<world></world>	PlainGlobal

Key Phrase	Plural	Creates a	From a	Form
kurtosis of <statistical bin=""></statistical>	kurtoses	<floating point=""></floating>	<statistical bin></statistical 	Plain
last <integer> of <string></string></integer>	lasts	<substring></substring>	<string></string>	Numbered
last <string> of <string></string></string>	lasts	<substring></substring>	<string></string>	Named
last became nonrelevant of <bes fixlet="" result=""></bes>	last became nonrelevants	<time></time>	 des fixlet result>	Plain
last became relevant of <bes fixlet="" result=""></bes>	last became relevants	<time></time>	 des fixlet result>	Plain
last child of <xml dom="" node=""></xml>	last children	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
last login time of <bes user=""></bes>	last login times	<time></time>	 bes user>	Plain
last report time of <bes computer=""></bes>	last report times	<time></time>	 computer>	Plain
leap of <year></year>	leaps	<boolean></boolean>	<year></year>	Plain
least hz	least hzs	<hertz></hertz>	<world></world>	PlainGlobal
least integer	least integers	<integer></integer>	<world></world>	PlainGlobal
least significant one bit of <bit set=""></bit>	least significant one bits	<integer></integer>	 bit set>	Plain
least time interval	least time intervals	<time interval></time 	<world></world>	PlainGlobal
left operand type of dinary operator>	left operand types	<type></type>	 binary operator>	Plain
left shift <integer> of <bit set=""></bit></integer>	left shifts	 bit set>	 bit set>	Numbered
length of <month and="" year=""></month>	lengths	<time interval></time 	<month and="" year=""></month>	Plain
length of <rope></rope>	lengths	<integer></integer>	<rope></rope>	Plain
length of <statistical bin=""></statistical>	lengths	<time interval></time 	<statistical bin></statistical 	Plain
length of <string></string>	lengths	<integer></integer>	<string></string>	Plain
length of <time range=""></time>	lengths	<time interval=""></time>	<time range=""></time>	Plain
length of <year></year>	lengths	<time interval></time 	<year></year>	Plain
less significance <integer> of <floating point=""></floating></integer>	less significances	<floating point=""></floating>	<floating point=""></floating>	Numbered
line number of <bes action="" result=""></bes>	line numbers	<integer></integer>	<pre><bes action="" result=""></bes></pre>	Plain
linear fit of <statistical bin=""></statistical>	linear fits	erprojection>	<statistical bin></statistical 	Plain

Key Phrase	Plural	Creates a	From a	Form
link html of <bes action=""></bes>	links	<html></html>	 bes action>	Indexed
link <html> of <bes computer=""></bes></html>	links	<html></html>	 computer>	Indexed
link httml> of <b style="text-align: right;">bes fixlet>	links	<html></html>	 bes fixlet>	Indexed
link html of <bes user=""></bes>	links	<html></html>	 bes user>	Indexed
link html of <bes wizard=""></bes>	links	<html></html>	 bes wizard>	Indexed
link <string> of <bes action=""></bes></string>	links	<html></html>	 bes action>	Named
link <string> of <bes computer=""></bes></string>	links	<html></html>	 computer>	Named
link <string> of <bes fixlet=""></bes></string>	links	<html></html>	 bes fixlet>	Named
link <string> of <bes user=""></bes></string>	links	<html></html>	 bes user>	Named
link <string> of <bes wizard=""></bes></string>	links	<html></html>	 bes wizard>	Named
link href of <bes action=""></bes>	link hrefs	<string></string>	 bes action>	Plain
link href of <bes computer=""></bes>	link hrefs	<string></string>	 computer>	Plain
link href of <bes fixlet=""></bes>	link hrefs	<string></string>	 bes fixlet>	Plain
link href of <bes user=""></bes>	link hrefs	<string></string>	 bes user>	Plain
link href of <bes wizard=""></bes>	link hrefs	<string></string>	 bes wizard>	Plain
link of <bes action=""></bes>	links	<html></html>	 bes action>	Plain
link of <bes computer=""></bes>	links	<html></html>	 computer>	Plain
link of <bes fixlet=""></bes>	links	<html></html>	 bes fixlet>	Plain
link of <bes user=""></bes>	links	<html></html>	 bes user>	Plain
link of <bes wizard=""></bes>	links	<html></html>	 bes wizard>	Plain
local time <string></string>	local times	<time></time>	<world></world>	NamedGlobal
local time zone	local time zones	<time zone=""></time>	<world></world>	PlainGlobal
locally visible flag of <bes fixlet=""></bes>	locally visible flags	<boolean></boolean>	 bes fixlet>	Plain
logarithm kurtosis of <statistical bin=""></statistical>	logarithm kurtoses	<floating point=""></floating>	<statistical bin></statistical 	Plain
logarithm skewness of <statistical bin=""></statistical>	logarithm skewnesses	<floating point=""></floating>	<statistical bin></statistical 	Plain
logarithm standard deviation of <statistical bin=""></statistical>	logarithm standard deviations	<floating point=""></floating>	<statistical bin></statistical 	Plain
logarithm variance of <statistical bin=""></statistical>	logarithm variances	<floating point=""></floating>	<statistical bin></statistical 	Plain

Key Phrase	Plural	Creates a	From a	Form
management rights flag of <bes action=""></bes>	management rights flags	<boolean></boolean>	 bes action>	Plain
march	marchs	<month></month>	<world></world>	PlainGlobal
march <integer></integer>	marchs	<day of="" year=""></day>	<world></world>	NumberedGlobal
march <integer> of <integer></integer></integer>	marchs	<date></date>	<integer></integer>	Numbered
march of <integer></integer>	marchs	<month and="" year=""></month>	<integer></integer>	Plain
master flag of <bes user=""></bes>	master flags	<boolean></boolean>	 bes user>	Plain
master site flag of <bes fixlet=""></bes>	master site flags	<boolean></boolean>	 bes fixlet>	Plain
match <regular expression=""> of <string></string></regular>	matches	<regular expression match></regular 	<string></string>	Indexed
maximum of <integer></integer>	maxima	<integer></integer>	<integer></integer>	Plain
maximum of <time interval=""></time>	maxima	<time interval></time 	<time interval></time 	Plain
maximum of <time></time>	maxima	<time></time>	<time></time>	Plain
maximum single computer total of <statistical bin=""></statistical>	maximum single computer totals	<floating point=""></floating>	<statistical bin></statistical 	Plain
maximum value of <statistical bin=""></statistical>	maximum values	<floating point=""></floating>	<statistical bin></statistical 	Plain
may	mays	<month></month>	<world></world>	PlainGlobal
may <integer></integer>	mays	<day of="" year=""></day>	<world></world>	NumberedGlobal
may <integer> of <integer></integer></integer>	mays	<date></date>	<integer></integer>	Numbered
may of <integer></integer>	mays	<month and="" year=""></month>	<integer></integer>	Plain
mean computer count of <statistical bin=""></statistical>	mean computer counts	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean failing computer count of <statistical bin=""></statistical>	mean failing computer counts	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean logarithm of <statistical bin=""></statistical>	mean logarithms	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean nonzero value count of <statistical bin=""></statistical>	mean nonzero value counts	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean of <floating point=""></floating>	means	<floating point=""></floating>	<floating point=""></floating>	Plain
mean of <integer></integer>	means	<floating point=""></floating>	<integer></integer>	Plain

Key Phrase	Plural	Creates a	From a	Form
mean of <statistical bin=""></statistical>	means	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean sample interval of <statistical bin=""></statistical>	mean sample intervals	<time interval></time 	<statistical bin></statistical 	Plain
mean sample rate of <statistical bin=""></statistical>	mean sample rates	<rate></rate>	<statistical bin></statistical 	Plain
mean successful computer count of <statistical bin=""></statistical>	mean successful computer counts	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean total of <statistical bin=""></statistical>	mean totals	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean value count of <statistical bin=""></statistical>	mean value counts	<floating point=""></floating>	<statistical bin></statistical 	Plain
mean zero value count of <statistical bin=""></statistical>	mean zero value counts	<floating point=""></floating>	<statistical bin></statistical 	Plain
menu path of <bes wizard=""></bes>	menu paths	<string></string>	 bes wizard>	Plain
message action button flag of <bes action=""></bes>	message action button flags	<boolean></boolean>	 bes action>	Plain
message allow cancel flag of <bes action=""></bes>	message allow cancel flags	<boolean></boolean>	 bes action>	Plain
message of <bes fixlet=""></bes>	messages	<html></html>	 bes fixlet>	Plain
message postpone delay of <bes action=""></bes>	message postpone delays	<time interval></time 	 bes action>	Plain
message text of <bes action=""></bes>	message texts	<string></string>	 bes action>	Plain
message timeout delay of <bes action=""></bes>	message timeout delays	<time interval></time 	 bes action>	Plain
message title of <bes action=""></bes>	message titles	<string></string>	 bes action>	Plain
mhz	mhzs	<hertz></hertz>	<world></world>	PlainGlobal
microsecond	microseconds	<time interval></time 	<world></world>	PlainGlobal
middle action of <bes action=""></bes>	middle actions	 bes action>	 bes action>	Plain
midnight	midnights	<time day="" of=""></time>	<world></world>	PlainGlobal
millisecond	milliseconds	<time interval></time 	<world></world>	PlainGlobal
minimum of <integer></integer>	minima	<integer></integer>	<integer></integer>	Plain
minimum of <time interval=""></time>	minima	<time interval></time 	<time interval></time 	Plain
minimum of <time></time>	minima	<time></time>	<time></time>	Plain

Key Phrase	Plural	Creates a	From a	Form
minimum single computer total of <statistical bin=""></statistical>	minimum single computer totals	<floating point=""></floating>	<statistical bin></statistical 	Plain
minimum value of <statistical bin=""></statistical>	minimum values	<floating point=""></floating>	<statistical bin></statistical 	Plain
minute	minutes	<time interval></time 	<world></world>	PlainGlobal
minute_of_hour of <time day="" of="" time="" with="" zone=""></time>	minutes_of_hour	<integer></integer>	<time day<br="" of="">with time zone></time>	Plain
minute_of_hour of <time day="" of=""></time>	minutes_of_hour	<integer></integer>	<time day="" of=""></time>	Plain
module <string></string>	modules	<module></module>	<world></world>	NamedGlobal
monday	mondays	<day of<br="">week></day>	<world></world>	PlainGlobal
month	months	<number months="" of=""></number>	<world></world>	PlainGlobal
month <integer></integer>	months	<month></month>	<world></world>	NumberedGlobal
month <string></string>	months	<month></month>	<world></world>	NamedGlobal
month of <date></date>	months	<month></month>	<date></date>	Plain
month of <day of="" year=""></day>	months	<month></month>	<day of="" year=""></day>	Plain
month of <month and="" year=""></month>	months	<month></month>	<month and="" year=""></month>	Plain
month_and_year of <date></date>	months_and_years	<month and="" year=""></month>	<date></date>	Plain
more significance <integer> of <floating point=""></floating></integer>	more significances	<floating point=""></floating>	<floating point=""></floating>	Numbered
most significant one bit of <bit set=""></bit>	most significant one bits	<integer></integer>	 bit set>	Plain
multiple flag of <bes action=""></bes>	multiple flags	<boolean></boolean>	 bes action>	Plain
multiplicity of <integer multiplicity="" with=""></integer>	multiplicities	<integer></integer>	<integer multiplicity="" with=""></integer>	Plain
multiplicity of <string multiplicity="" with=""></string>	multiplicities	<integer></integer>	<pre><string multiplicity="" with=""></string></pre>	Plain
multivalued of <pre><pre><pre><pre></pre></pre></pre></pre>	multivalueds	<boolean></boolean>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain
name of <bes action=""></bes>	names	<string></string>	 bes action>	Plain
name of <bes activation=""></bes>	names	<string></string>	 activation>	Plain
name of <bes computer=""></bes>	names	<string></string>	 computer>	Plain

Key Phrase	Plural	Creates a	From a	Form
name of <bes custom="" site=""></bes>	names	<string></string>	 	Plain
name of <bes fixlet=""></bes>	names	<string></string>	 des fixlet>	Plain
name of <bes property=""></bes>	names	<string></string>	 bes property>	Plain
name of <bes site=""></bes>	names	<string></string>	 bes site>	Plain
name of <bes user=""></bes>	names	<string></string>	 bes user>	Plain
name of <bes wizard=""></bes>	names	<string></string>	 bes wizard>	Plain
name of <binary operator=""></binary>	names	<string></string>	 binary operator>	Plain
name of <cast></cast>	names	<string></string>	<cast></cast>	Plain
name of <type></type>	names	<string></string>	<type></type>	Plain
name of <unary operator=""></unary>	names	<string></string>	<unary operator=""></unary>	Plain
nan of <floating point=""></floating>	nans	<boolean></boolean>	<floating point=""></floating>	Plain
navbar name of <bes wizard=""></bes>	navbar names	<string></string>	 bes wizard>	Plain
next sibling of <xml dom="" node=""></xml>	next siblings	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
node name of <xml dom="" node=""></xml>	node names	<string></string>	<xml dom<br="">node></xml>	Plain
node type of <xml dom="" node=""></xml>	node types	<integer></integer>	<xml dom<br="">node></xml>	Plain
node value of <xml dom="" node=""></xml>	node values	<string></string>	<xml dom<br="">node></xml>	Plain
noon	noons	<time day="" of=""></time>	<world></world>	PlainGlobal
normal of <floating point=""></floating>	normals	<boolean></boolean>	<floating point=""></floating>	Plain
november	novembers	<month></month>	<world></world>	PlainGlobal
november <integer></integer>	novembers	<day of="" year=""></day>	<world></world>	NumberedGlobal
november <integer> of <integer></integer></integer>	novembers	<date></date>	<integer></integer>	Numbered
november of <integer></integer>	novembers	<month and="" year=""></month>	<integer></integer>	Plain
now	nows	<time></time>	<world></world>	PlainGlobal
numeric value of <string></string>	numeric values	<integer></integer>	<string></string>	Plain
october	octobers	<month></month>	<world></world>	PlainGlobal
october <integer></integer>	octobers	<day of="" year=""></day>	<world></world>	NumberedGlobal

Key Phrase	Plural	Creates a	From a	Form
october <integer> of <integer></integer></integer>	octobers	<date></date>	<integer></integer>	Numbered
october of <integer></integer>	octobers	<month and="" year=""></month>	<integer></integer>	Plain
one bit of <bit set=""></bit>	one bits	<integer></integer>	 bit set>	Plain
open action count of <bes fixlet=""></bes>	open action counts	<integer></integer>	 bes fixlet>	Plain
operand type of <cast></cast>	operand types	<type></type>	<cast></cast>	Plain
operand type of <unary operator=""></unary>	operand types	<type></type>	<unary operator=""></unary>	Plain
operator site flag of <bes action=""></bes>	operator site flags	<boolean></boolean>	 bes action>	Plain
operator site flag of <bes fixlet=""></bes>	operator site flags	<boolean></boolean>	<bes fixlet=""></bes>	Plain
overflow of <floating point=""></floating>	overflows	<boolean></boolean>	<floating point=""></floating>	Plain
owner document of <xml dom="" node=""></xml>	owner documents	<xml dom<br="">document></xml>	<xml dom<br="">node></xml>	Plain
owner flag bes user> of bes custom site>	owner flags	<boolean></boolean>	 bes custom site>	Indexed
owner of <bes custom="" site=""></bes>	owners	 /bes user>	 bes custom site>	Plain
parent node of <xml dom="" node=""></xml>	parent nodes	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
parent of <type></type>	parents	<type></type>	<type></type>	Plain
parenthesized part <integer> of <regular expression="" match=""></regular></integer>	parenthesized parts	<substring></substring>	<regular expression match></regular 	Numbered
parenthesized part of <regular expression="" match=""></regular>	parenthesized parts	<substring></substring>	<regular expression match></regular 	Plain
plural flag of <bes property="" result=""></bes>	plural flags	<boolean></boolean>	<pre><bes property="" result=""></bes></pre>	Plain
plural name of <pre><pre>property></pre></pre>	plural names	<string></string>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain
position <integer> of <string></string></integer>	positions	<string position=""></string>	<string></string>	Numbered
position of <string></string>	positions	<string position=""></string>	<string></string>	Plain
postaction allow cancel flag of <bes action=""></bes>	postaction allow cancel flags	<boolean></boolean>	 /bes action>	Plain
postaction force delay of <bes action=""></bes>	postaction force delays	<time interval=""></time>	 /bes action>	Plain

Key Phrase	Plural	Creates a	From a	Form
postaction message text of <bes action=""></bes>	postaction message texts	<string></string>	 bes action>	Plain
postaction message title of <bes action=""></bes>	postaction message titles	<string></string>	 des action>	Plain
postaction postpone delay of <bes action=""></bes>	postaction postpone delays	<time interval></time 	 des action>	Plain
pre60 flag of <bes wizard=""></bes>	pre60 flags	<boolean></boolean>	 bes wizard>	Plain
preceding text of <string position=""></string>	preceding texts	<substring></substring>	<string position=""></string>	Plain
preceding text of <substring></substring>	preceding texts	<substring></substring>	<substring></substring>	Plain
previous sibling of <xml dom="" node=""></xml>	previous siblings	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Plain
product of <integer></integer>	products	<integer></integer>	<integer></integer>	Plain
property <integer> of <bes fixlet=""></bes></integer>	properties	 bes property>	 des fixlet>	Numbered
property <string></string>	properties	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	NamedGlobal
property <string> of <type></type></string>	properties	<pre><pre><pre><pre>property></pre></pre></pre></pre>	<type></type>	Named
property of <bes fixlet=""></bes>	properties	 bes property>	 bes fixlet>	Plain
property of <bes property="" result=""></bes>	properties	 bes property>	<pre><bes property="" result=""></bes></pre>	Plain
property of <type></type>	properties	<pre><pre><pre><pre>property></pre></pre></pre></pre>	<type></type>	Plain
property result of <bes computer=""></bes>	property results	<pre><bes property="" result=""></bes></pre>	 computer>	Plain
property returning <type></type>	properties returning	<pre><pre><pre><pre>property></pre></pre></pre></pre>	<world></world>	IndexedGlobal
property returning <type> of <type></type></type>	properties returning	<pre><pre><pre><pre>property></pre></pre></pre></pre>	<type></type>	Indexed
range <time range=""> of <statistic range=""></statistic></time>	ranges	<statistic range=""></statistic>	<statistic range=""></statistic>	Indexed
range after <time> of <time range=""></time></time>	ranges after	<time range=""></time>	<time range=""></time>	Indexed
range before <time> of <time range=""></time></time>	ranges before	<time range=""></time>	<time range=""></time>	Indexed
rate <time interval=""> of <exponential projection=""></exponential></time>	rates	<floating point=""></floating>	<pre><exponential projection=""></exponential></pre>	Indexed
rate of rate of specified rate of specified	rates	<rate></rate>	linear projection>	Plain
reader of <bes custom="" site=""></bes>	readers	 	 bes custom site>	Plain
reapplication limit of <bes action=""></bes>	reapplication limits	<integer></integer>	 bes action>	Plain

Plural	Creates a	From a	Form
regexes	<regular expression=""></regular>	<world></world>	NamedGlobal
regular expressions	<regular expression=""></regular>	<world></world>	NamedGlobal
relative significance places	<floating point=""></floating>	<floating point=""></floating>	Numbered
relative significance places	<floating point=""></floating>	<floating point=""></floating>	Plain
relevances	<string></string>	 bes fixlet>	Plain
relevants	<boolean></boolean>	<world></world>	IndexedGlobal
relevants	<boolean></boolean>	<world></world>	IndexedGlobal
relevants	<boolean></boolean>	 des fixlet>	Indexed
relevants	<boolean></boolean>	 computer>	Indexed
relevant fixlets	 des fixlet>	 computer>	Plain
relevant flags	<boolean></boolean>	 	Plain
require user absences	<boolean></boolean>	 bes action>	Plain
require user presences	<boolean></boolean>	 bes action>	Plain
requires authoring flags	<boolean></boolean>	 bes wizard>	Plain
reserved flags	<boolean></boolean>	 bes property>	Plain
restart flags	<boolean></boolean>	 bes action>	Plain
results	<pre><bes action="" result=""></bes></pre>	<world></world>	IndexedGlobal
results	<pre><bes action="" result=""></bes></pre>	<world></world>	IndexedGlobal
results	 	<world></world>	IndexedGlobal
results	 	<world></world>	IndexedGlobal
results from	<pre><bes action="" result=""></bes></pre>	 computer>	Indexed
results from	<pre><bes action="" result=""></bes></pre>	 des action>	Indexed
results from	 	 bes property>	Indexed
	regexes regular expressions relative significance places relative significance places relevances relevants relevants relevants relevants relevant fixlets relevant flags require user absences require user presences requires authoring flags reserved flags results	regexes	regexes

Key Phrase	Plural	Creates a	From a	Form
result from bes property> of bes computer>	results from	<pre><bes property="" result=""></bes></pre>	 computer>	Indexed
result of <bes action=""></bes>	results	<pre><bes action="" result=""></bes></pre>	 	Plain
result of <bes fixlet=""></bes>	results	 	 des fixlet>	Plain
result of <bes property=""></bes>	results	<pre><bes property="" result=""></bes></pre>	 bes property>	Plain
result type of binary operator>	result types	<type></type>	 	Plain
result type of <pre><pre>property></pre></pre>	result types	<type></type>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain
result type of <unary operator=""></unary>	result types	<type></type>	<unary operator=""></unary>	Plain
retry count of <bes action="" result=""></bes>	retry counts	<integer></integer>	<pre><bes action="" result=""></bes></pre>	Plain
retry delay of <bes action=""></bes>	retry delays	<time interval></time 	 bes action>	Plain
retry limit of <bes action=""></bes>	retry limits	<integer></integer>	 des action>	Plain
right operand type of operator>	right operand types	<type></type>	 	Plain
right shift <integer> of <bit set=""></bit></integer>	right shifts	 bit set>	 bit set>	Numbered
rope <string></string>	ropes	<rope></rope>	<world></world>	NamedGlobal
running message text of <bes action=""></bes>	running message texts	<string></string>	 des action>	Plain
running message title of <bes action=""></bes>	running message titles	<string></string>	 bes action>	Plain
sans id list of <bes fixlet=""></bes>	sans id lists	<string></string>	 bes fixlet>	Plain
saturday	saturdays	<day of="" week=""></day>	<world></world>	PlainGlobal
script of <bes action="" fixlet=""></bes>	scripts	<string></string>	 	Plain
script type of <bes action="" fixlet=""></bes>	script types	<string></string>	<pre><bes action="" fixlet=""></bes></pre>	Plain
second	seconds	<time interval></time 	<world></world>	PlainGlobal
second_of_minute of <time day="" of="" time="" with="" zone=""></time>	seconds_of_minute	<integer></integer>	<time day<br="" of="">with time zone></time>	Plain
second_of_minute of <time day="" of=""></time>	seconds_of_minute	<integer></integer>	<time day="" of=""></time>	Plain
select <string> of <xml dom="" node=""></xml></string>	selects	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Named

Key Phrase	Plural	Creates a	From a	Form
selected groups string of <bes action=""></bes>	selected groups strings	<string></string>	 bes action>	Plain
september	septembers	<month></month>	<world></world>	PlainGlobal
september <integer></integer>	septembers	<day of="" year=""></day>	<world></world>	NumberedGlobal
september <integer> of <integer></integer></integer>	septembers	<date></date>	<integer></integer>	Numbered
september of <integer></integer>	septembers	<month and="" year=""></month>	<integer></integer>	Plain
settings flag of <bes action=""></bes>	settings flags	<boolean></boolean>	 bes action>	Plain
show message flag of <bes action=""></bes>	show message flags	<boolean></boolean>	 bes action>	Plain
show running message flag of <bes action=""></bes>	show running message flags	<boolean></boolean>	 bes action>	Plain
shutdown flag of <bes action=""></bes>	shutdown flags	<boolean></boolean>	 bes action>	Plain
significance place <integer> of <floating point=""></floating></integer>	significance places	<floating point=""></floating>	<floating point=""></floating>	Numbered
significance place of <floating point=""></floating>	significance places	<floating point=""></floating>	<floating point=""></floating>	Plain
significance threshold of <floating point=""></floating>	significance thresholds	<floating point=""></floating>	<floating point=""></floating>	Plain
significant digits <integer> of <hertz></hertz></integer>	significant digitss	<hertz></hertz>	<hertz></hertz>	Numbered
significant digits <integer> of <integer></integer></integer>	significant digitss	<integer></integer>	<integer></integer>	Numbered
single flag of <bes action=""></bes>	single flags	<boolean></boolean>	 bes action>	Plain
singular name of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	singular names	<string></string>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain
site of <bes fixlet=""></bes>	sites	<bes site=""></bes>	 bes fixlet>	Plain
size of <type></type>	sizes	<integer></integer>	<type></type>	Plain
skewness of <statistical bin=""></statistical>	skewnesses	<floating point=""></floating>	<statistical bin></statistical 	Plain
source analysis of <bes property=""></bes>	source analyses	 	 bes property>	Plain
source evaluation period of <bes property=""></bes>	source evaluation periods	<time interval=""></time>	 bes property>	Plain
source fixlet of <bes action=""></bes>	source fixlets	 bes fixlet>	 bes action>	Plain
source id of <bes fixlet=""></bes>	source ids	<string></string>	 bes fixlet>	Plain
source id of <bes property=""></bes>	source ids	<integer></integer>	 bes property>	Plain
source name of <bes property=""></bes>	source names	<string></string>	 bes property>	Plain
source of <bes fixlet=""></bes>	sources	<string></string>	 /bes fixlet>	Plain

Key Phrase	Plural	Creates a	From a	Form
source release date of <bes fixlet=""></bes>	source release dates	<date></date>	 bes fixlet>	Plain
source relevance of <bes action=""></bes>	source relevances	<string></string>	 bes action>	Plain
source severity of <bes fixlet=""></bes>	source severities	<string></string>	 bes fixlet>	Plain
source severity of <fixlet count="" pair=""></fixlet>	source severitys	<string></string>	<fixlet count="" pair=""></fixlet>	Plain
standard deviation of <floating point=""></floating>	standard deviations	<floating point=""></floating>	<floating point=""></floating>	Plain
standard deviation of <integer></integer>	standard deviations	<floating point=""></floating>	<integer></integer>	Plain
standard deviation of <statistical bin=""></statistical>	standard deviations	<floating point=""></floating>	<statistical bin></statistical 	Plain
start date of <bes action=""></bes>	start dates	<date></date>	 bes action>	Plain
start flag of <bes action=""></bes>	start flags	<boolean></boolean>	 bes action>	Plain
start of <statistic range=""></statistic>	starts	<time></time>	<statistic range></statistic 	Plain
start of <statistical bin=""></statistical>	starts	<time></time>	<statistical bin></statistical 	Plain
start of <substring></substring>	starts	<string position=""></string>	<substring></substring>	Plain
start of <time range=""></time>	starts	<time></time>	<time range=""></time>	Plain
start time_of_day of <bes action=""></bes>	start times_of_day	<time day="" of=""></time>	 des action>	Plain
state of <bes action=""></bes>	states	<string></string>	 bes action>	Plain
statistic range of <bes property=""></bes>	statistic ranges	<statistic range=""></statistic>	 bes property>	Plain
status of <bes action="" result=""></bes>	statuses	 status>	<pre><bes action="" result=""></bes></pre>	Plain
string <string></string>	strings	<string></string>	<world></world>	NamedGlobal
subscription flag of <bes action=""></bes>	subscription flags	<boolean></boolean>	 bes action>	Plain
substring <string> of <string></string></string>	substrings	<substring></substring>	<string></string>	Named
substring after <string> of <string></string></string>	substrings after	<substring></substring>	<string></string>	Named
substring before <string> of <string></string></string>	substrings before	<substring></substring>	<string></string>	Named
substring between <string> of <string></string></string>	substrings between	<substring></substring>	<string></string>	Named
substring separated by <string> of <string></string></string>	substrings separated by	<substring></substring>	<string></string>	Named
success on custom relevance of <bes action=""></bes>	success on custom relevances	<boolean></boolean>	 des action>	Plain

Key Phrase	Plural	Creates a	From a	Form
success on original relevance of <bes action=""></bes>	success on original relevances	<boolean></boolean>	 des action>	Plain
success on run to completion of <bes action=""></bes>	success on run to completions	<boolean></boolean>	 des action>	Plain
success rate of <statistical bin=""></statistical>	success rates	<floating point=""></floating>	<statistical bin></statistical 	Plain
sum of <integer></integer>	sums	<integer></integer>	<integer></integer>	Plain
sunday	sundays	<day of="" week=""></day>	<world></world>	PlainGlobal
symbol of binary operator>	symbols	<string></string>	 operator>	Plain
symbol of <unary operator=""></unary>	symbols	<string></string>	<unary operator=""></unary>	Plain
targeted by id flag of <bes action=""></bes>	targeted by id flags	<boolean></boolean>	 bes action>	Plain
targeted by list flag of <bes action=""></bes>	targeted by list flags	<boolean></boolean>	 bes action>	Plain
targeted by property flag of <bes action=""></bes>	targeted by property flags	<boolean></boolean>	 des action>	Plain
targeted computer of <bes action=""></bes>	targeted computers	 computer>	 des action>	Plain
targeted list of <bes action=""></bes>	targeted lists	<string></string>	 bes action>	Plain
targeted name of <bes action=""></bes>	targeted names	<string></string>	 bes action>	Plain
targeting method of <bes action=""></bes>	targeting methods	<string></string>	 bes action>	Plain
targeting relevance of <bes action=""></bes>	targeting relevances	<string></string>	 bes action>	Plain
task flag of <bes fixlet=""></bes>	task flags	<boolean></boolean>	 bes fixlet>	Plain
temporal distribution of <bes action=""></bes>	temporal distributions	<time interval></time 	 des action>	Plain
thursday	thursdays	<day of="" week=""></day>	<world></world>	PlainGlobal
time <string></string>	times	<time></time>	<world></world>	NamedGlobal
time <time zone=""> of <time></time></time>	times	<time day<br="" of="">with time zone></time>	<time></time>	Indexed
time interval <string></string>	time intervals	<time interval></time 	<world></world>	NamedGlobal
time issued of <bes action=""></bes>	times issued	<time></time>	 bes action>	Plain
time of <historical computer="" count=""></historical>	times	<time></time>	<historical computer="" count=""></historical>	Plain

Key Phrase	Plural	Creates a	From a	Form
time of <historical count="" fixlet=""></historical>	times	<time></time>	<historical count="" fixlet=""></historical>	Plain
time of <time day="" of="" time="" with="" zone=""></time>	times	<time day="" of=""></time>	<time day<br="" of="">with time zone></time>	Plain
time range end of <bes action=""></bes>	time range ends	<time day="" of=""></time>	 bes action>	Plain
time range start of <bes action=""></bes>	time range starts	<time day="" of=""></time>	 bes action>	Plain
time zone <string></string>	time zones	<time zone=""></time>	<world></world>	NamedGlobal
time_of_day <string></string>	times_of_day	<time day="" of=""></time>	<world></world>	NamedGlobal
top level bes action	top level bes actions	 bes action>	<world></world>	PlainGlobal
total <time interval=""> of <statistic range=""></statistic></time>	totals	<statistical bin></statistical 	<statistic range></statistic 	Indexed
total lower bound of <statistical bin=""></statistical>	total lower bounds	<floating point=""></floating>	<statistical bin></statistical 	Plain
total of <statistic range=""></statistic>	totals	<statistical bin></statistical 	<statistic range></statistic 	Plain
total upper bound of <statistical bin=""></statistical>	total upper bounds	<floating point=""></floating>	<statistical bin></statistical 	Plain
true	trues	<boolean></boolean>	<world></world>	PlainGlobal
tuesday	tuesdays	<day of="" week=""></day>	<world></world>	PlainGlobal
tuple string item <integer> of <string></string></integer>	tuple string items	<string></string>	<string></string>	Numbered
tuple string item of <string></string>	tuple string items	<string></string>	<string></string>	Plain
two digit hour of <time day="" of=""></time>	two digit hours	<string></string>	<time day="" of=""></time>	Plain
two digit minute of <time day="" of=""></time>	two digit minutes	<string></string>	<time day="" of=""></time>	Plain
two digit second of <time day="" of=""></time>	two digit seconds	<string></string>	<time day="" of=""></time>	Plain
type of <bes fixlet=""></bes>	types	<string></string>	 bes fixlet>	Plain
unary operator <string></string>	unary operators	<unary operator=""></unary>	<world></world>	NamedGlobal
unary operator returning <type></type>	unary operators returning	<unary operator=""></unary>	<world></world>	IndexedGlobal
underflow of <floating point=""></floating>	underflows	<boolean></boolean>	<floating point=""></floating>	Plain
unique value of <integer></integer>	unique values	<integer multiplicity="" with=""></integer>	<integer></integer>	Plain
unique value of <integer></integer>	unique values	<integer></integer>	<integer></integer>	Plain
unique value of <string></string>	unique values	<string multiplicity="" with=""></string>	<string></string>	Plain

Key Phrase	Plural	Creates a	From a	Form
unique value of <string></string>	unique values	<string></string>	<string></string>	Plain
universal time <string></string>	universal times	<time></time>	<world></world>	NamedGlobal
universal time zone	universal time zones	<time zone=""></time>	<world></world>	PlainGlobal
unlocked computer count of <bes fixlet=""></bes>	unlocked computer counts	<integer></integer>	 des fixlet>	Plain
untargeted flag of <bes action=""></bes>	untargeted flags	<boolean></boolean>	 bes action>	Plain
urgent flag of <bes action=""></bes>	urgent flags	<boolean></boolean>	 des action>	Plain
url of <bes wizard=""></bes>	urls	<string></string>	 bes wizard>	Plain
usual name of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	usual names	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain
value count of <bes property="" result=""></bes>	value counts	<integer></integer>	<pre><bes property="" result=""></bes></pre>	Plain
value of bes property result>	values	<string></string>	 	Plain
variance of <statistical bin=""></statistical>	variances	<floating point=""></floating>	<statistical bin></statistical 	Plain
version string <string> of <module></module></string>	version strings	<string></string>	<module></module>	Named
wednesday	wednesdays	<day of="" week=""></day>	<world></world>	PlainGlobal
week	weeks	<time interval></time 	<world></world>	PlainGlobal
windows display time <string></string>	windows display times	<time></time>	<world></world>	NamedGlobal
wizard data of <bes fixlet=""></bes>	wizard datas	<html></html>	 bes fixlet>	Plain
wizard link of <bes fixlet=""></bes>	wizard links	<string></string>	 bes fixlet>	Plain
wizard name of <bes fixlet=""></bes>	wizard names	<string></string>	 bes fixlet>	Plain
writer of <bes custom="" site=""></bes>	writers	 /bes user>	 site>	Plain
xml document of <string></string>	xml documents	<xml document="" dom=""></xml>	<string></string>	Plain
xpath <(string, string)> of <xml dom="" node=""></xml>	xpaths	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Indexed
xpath <string> of <xml dom="" node=""></xml></string>	xpaths	<xml dom<br="">node></xml>	<xml dom<br="">node></xml>	Named
year	years	<number months="" of=""></number>	<world></world>	PlainGlobal
year <integer></integer>	years	<year></year>	<world></world>	NumberedGlobal
year <string></string>	years	<year></year>	<world></world>	NamedGlobal
year of <date></date>	years	<year></year>	<date></date>	Plain

Key Phrase	Plural	Creates a	From a	Form
year of <month and="" year=""></month>	years	<year></year>	<month and="" year=""></month>	Plain
zone of <time day="" of="" time="" with="" zone=""></time>	zones	<time zone=""></time>	<time day<br="" of="">with time zone></time>	Plain
zoned time_of_day <string></string>	zoned times_of_day	<time day<br="" of="">with time zone></time>	<world></world>	NamedGlobal

Casting Operators

The casting operators allow you to convert one type to another. This is a list of the casting operators sorted by key phrase.

Key Phrase	Creates a	From a
<action lock="" state=""> as string</action>	<string></string>	<action lock<br="">state></action>
 bes action status> as string	<string></string>	 status>
 dinary operator> as string	<string></string>	 dinary operator>
 	<string></string>	 bios>
 bit set> as integer	<integer></integer>	 bit set>
 dit set> as string	<string></string>	 bit set>
<boolean> as boolean</boolean>	<boolean></boolean>	<boolean></boolean>
<boolean> as string</boolean>	<string></string>	<boolean></boolean>
<cast> as string</cast>	<string></string>	<cast></cast>
<date> as string</date>	<string></string>	<date></date>
<day month="" of=""> as integer</day>	<integer></integer>	<day month="" of=""></day>
<day month="" of=""> as string</day>	<string></string>	<day month="" of=""></day>
<day month="" of=""> as two digits</day>	<string></string>	<day month="" of=""></day>
<day of="" week=""> as string</day>	<string></string>	<day of="" week=""></day>
<day of="" week=""> as three letters</day>	<string></string>	<day of="" week=""></day>

Key Phrase	Creates a	From a
<pre><day of="" year=""> as string</day></pre>	<string></string>	<day of="" year=""></day>
<pre><environment variable=""> as string</environment></pre>	<string></string>	<environment variable=""></environment>
<file content=""> as lowercase</file>	<file content=""></file>	<file content=""></file>
<file content=""> as uppercase</file>	<file content=""></file>	<file content=""></file>
<file> as string</file>	<string></string>	<file></file>
<floating point=""> as integer</floating>	<integer></integer>	<floating point=""></floating>
<floating point=""> as scientific notation</floating>	<string></string>	<floating point=""></floating>
<floating point=""> as standard notation</floating>	<string></string>	<floating point=""></floating>
<floating point=""> as string</floating>	<string></string>	<floating point=""></floating>
<hertz> as string</hertz>	<string></string>	<hertz></hertz>
<html> as html</html>	<html></html>	<html></html>
<html> as string</html>	<string></string>	<html></html>
<integer> as bit set</integer>	 bit set>	<integer></integer>
<integer> as bits</integer>	 bit set>	<integer></integer>
<integer> as day_of_month</integer>	<day month="" of=""></day>	<integer></integer>
<integer> as floating point</integer>	<floating point=""></floating>	<integer></integer>
<integer> as hexadecimal</integer>	<string></string>	<integer></integer>
<integer> as integer</integer>	<integer></integer>	<integer></integer>
<integer> as month</integer>	<month></month>	<integer></integer>
<integer> as string</integer>	<string></string>	<integer></integer>
<integer> as year</integer>	<year></year>	<integer></integer>
<ipv4 address=""> as string</ipv4>	<string></string>	<ipv4 address=""></ipv4>
<language> as string</language>	<string></string>	<language></language>
<local group="" member=""> as string</local>	<string></string>	<local group<br="">member></local>
<metabase identifier=""> as integer</metabase>	<integer></integer>	<metabase identifier=""></metabase>
<metabase identifier=""> as string</metabase>	<string></string>	<metabase identifier=""></metabase>

Key Phrase	Creates a	From a
<metabase type=""> as integer</metabase>	<integer></integer>	<metabase type=""></metabase>
<metabase type=""> as string</metabase>	<string></string>	<metabase type=""></metabase>
<metabase type="" user=""> as integer</metabase>	<integer></integer>	<metabase type="" user=""></metabase>
<metabase type="" user=""> as string</metabase>	<string></string>	<metabase type="" user=""></metabase>
<metabase value=""> as integer</metabase>	<integer></integer>	<metabase value=""></metabase>
<metabase value=""> as string</metabase>	<string></string>	<metabase value=""></metabase>
<month and="" year=""> as string</month>	<string></string>	<month and="" year=""></month>
<month> as integer</month>	<integer></integer>	<month></month>
<month> as string</month>	<string></string>	<month></month>
<month> as three letters</month>	<string></string>	<month></month>
<month> as two digits</month>	<string></string>	<month></month>
<number months="" of=""> as string</number>	<string></string>	<number months="" of=""></number>
<pre><operating system=""> as string</operating></pre>	<string></string>	<pre><operating system=""></operating></pre>
<pre><pre><pre><pre><pre><pre><pre>as string</pre></pre></pre></pre></pre></pre></pre>	<string></string>	<pre><pre><pre><pre>language></pre></pre></pre></pre>
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<string></string>	<pre><pre><pre><pre>property></pre></pre></pre></pre>
<rate> as string</rate>	<string></string>	<rate></rate>
<registry key="" type="" value=""> as string</registry>	<string></string>	<registry key="" type="" value=""></registry>
<registry key="" value=""> as application</registry>	<application></application>	<registry key="" value=""></registry>
<registry key="" value=""> as file</registry>	<file></file>	<registry key="" value=""></registry>
<registry key="" value=""> as folder</registry>	<folder></folder>	<registry key="" value=""></registry>
<registry key="" value=""> as integer</registry>	<integer></integer>	<registry key="" value=""></registry>
<registry key="" value=""> as string</registry>	<string></string>	<registry key="" value=""></registry>

Key Phrase	Creates a	From a
<registry key="" value=""> as system file</registry>	<file></file>	<registry key="" value=""></registry>
<registry key="" value=""> as time</registry>	<time></time>	<registry key="" value=""></registry>
<rope> as string</rope>	<string></string>	<rope></rope>
<security descriptor=""> as string</security>	<string></string>	<security descriptor=""></security>
<security identifier=""> as string</security>	<string></string>	<security identifier=""></security>
<service> as string</service>	<string></string>	<service></service>
<setting> as string</setting>	<string></string>	<setting></setting>
<string> as boolean</string>	<boolean></boolean>	<string></string>
<string> as date</string>	<date></date>	<string></string>
<string> as day_of_month</string>	<day month="" of=""></day>	<string></string>
<pre><string> as day_of_week</string></pre>	<day of="" week=""></day>	<string></string>
<string> as floating point</string>	<floating point=""></floating>	<string></string>
<string> as hexadecimal</string>	<string></string>	<string></string>
<string> as html</string>	<html></html>	<string></string>
<string> as integer</string>	<integer></integer>	<string></string>
<string> as left trimmed string</string>	<string></string>	<string></string>
<string> as local time</string>	<time></time>	<string></string>
<pre><string> as local zoned time_of_day</string></pre>	<time day="" of="" time="" with="" zone=""></time>	<string></string>
<string> as lowercase</string>	<string></string>	<string></string>
<string> as month</string>	<month></month>	<string></string>
<string> as right trimmed string</string>	<string></string>	<string></string>
<string> as string</string>	<string></string>	<string></string>
<string> as time</string>	<time></time>	<string></string>
<string> as time interval</string>	<time interval=""></time>	<string></string>
<string> as time zone</string>	<time zone=""></time>	<string></string>
<string> as time_of_day</string>	<time day="" of=""></time>	<string></string>

Key Phrase	Creates a	From a
<string> as trimmed string</string>	<string></string>	<string></string>
<string> as universal time</string>	<time></time>	<string></string>
<string> as universal zoned time_of_day</string>	<time day="" of="" time="" with="" zone=""></time>	<string></string>
<string> as uppercase</string>	<string></string>	<string></string>
<string> as version</string>	<version></version>	<string></string>
<string> as windows display time</string>	<time></time>	<string></string>
<string> as year</string>	<year></year>	<string></string>
<string> as zoned time_of_day</string>	<time day="" of="" time="" with="" zone=""></time>	<string></string>
<time interval=""> as string</time>	<string></string>	<time interval=""></time>
<time day="" of="" time="" with="" zone=""> as string</time>	<string></string>	<time day="" of="" time="" with="" zone=""></time>
<time day="" of=""> as string</time>	<string></string>	<time day="" of=""></time>
<time range=""> as string</time>	<string></string>	<time range=""></time>
<time zone=""> as string</time>	<string></string>	<time zone=""></time>
<time> as local string</time>	<string></string>	<time></time>
<time> as string</time>	<string></string>	<time></time>
<time> as universal string</time>	<string></string>	<time></time>
<type> as string</type>	<string></string>	<type></type>
<unary operator=""> as string</unary>	<string></string>	<unary operator=""></unary>
<version> as string</version>	<string></string>	<version></version>
<version> as version</version>	<version></version>	<version></version>
<wmi object=""> as string</wmi>	<string></string>	<wmi object=""></wmi>
<wmi select=""> as string</wmi>	<string></string>	<wmi select=""></wmi>
<xml dom="" node=""> as text</xml>	<string></string>	<xml dom="" node=""></xml>
<xml dom="" node=""> as xml</xml>	<string></string>	<xml dom="" node=""></xml>
<year> as integer</year>	<integer></integer>	<year></year>
<pre><year> as string</year></pre>	<string></string>	<year></year>

Appendix

Folders on Windows Machines

On Windows machines, numeric identifiers can be used to locate many system folders. INF files are used to install system software components and device drives. INF files contain sections entitled DestinationDirs. This section is used with the corresponding CopyFiles section to specify destination locations for files placed on the system during the install. The Number identifies the directory. The numbers are sometimes called LDIDs and sometimes called DIRIDs. We call them install folders. Below is a table of install folders and the method BigFix uses to calculate the location.

Install		
folder#	Name	Calculated using
10	LDID_WIN	GetWindowsDirectory()
11	LDID_SYS	GetSystemDirectory()
12	LDID_IOS	GetSystemDirectory() + "\IOSUBSYS"
13	LDID_CMD	GetWindowsDirectory() + "\COMMAND"
14	LDID_CPL	GetPathFromCSIDL(CSIDL_CONTROLS)
15	LDID_PRINT	GetPathFromCSIDL(CSIDL_PRINTERS)
17	LDID_INF	GetWindowsDirectory() + "\INF"
18	LDID_HELP	GetWindowsDirectory() + "\HELP"
19	LDID_WINADMIN	*Registered Setup folder "WinAdminDir"
20	LDID_FONTS	GetPathFromCSIDL(CSIDL_CSIDL_FONTS)
21	LDID_VIEWERS	GetSystemDirectory() + "\VIEWERS"
22	LDID_VMM32	GetSystemDirectory() + "\VMM32"
23	LDID_COLOR	*Registered Setup folder "ICMPath"
24	LDID_APPS	*Registered Setup folder "AppsDir"
25	LDID_SHARED	*Registered Setup folder "SharedDir"
26	LDID_WINBOOT	*Registered Setup folder "WinBootDir"
27	LDID_MACHINE	*Registered Setup folder "MachineDir"
28	LDID_HOST_WINBOOT	*Registered Setup folder "HostWinBootDir"
29	LDID_BOOT	*Registered Setup folder "BootDir"
30	LDID_BOOT_HOST	*Registered Setup folder "BootHost"
31	LDID_OLD_WINBOOT	*Registered Setup folder "OldWinBootDir"
32	LDID_OLD_WIN	*Registered Setup folder "OldWinDir"
33	LDID_OLD_DOS	*Registered Setup folder "OldDosDir"

^{*}Registered Setup folders are stored in the Windows registry under the key:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\SETUP
An adjustable set of target locations has been added to the Windows Registry under the key:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\SETUP\VarLDID

Each value stored under this key is a string whose name is the VarLDID and whose value contains a path to a folder. For example, if the value named 28701 contains C:\Program Files, then install folder "28701"

would return a folder corresponding to that location.

Processors

On Windows machines, the Vendor Name, Family, Type, Model, Extended Family, Extended Model and stepping are calculated using the CPUID instruction. The results depend upon the processor and the vendor of the processor. The inspectors return values based upon the Intel specification for the CPUID instruction. Other vendors or older processors may behave differently. An attempt is made to identify the Family and Family name for processors that do not support the CPUID instruction. You can depend upon the vendor name to distinguish the different vendors except that early versions of the 80486 from AMD are completely indistinguishable from an Intel processor. In this case "AmbiguousCPU" is returned for the vendor name. A complete list of bit values returned by the feature masks property is available in the Intel documentation. These can be found online at the Intel web site.

The speed is measured using a timed sequence of instructions. The speed returned may differ from the expected amount by a couple of MHz.

The CPUID instruction is executed with 1 in the EAX register to compute:

Stepping	Bits 0-3
Model	Bits 4-7
Family	Bits 8-11
Туре	Bits 12-13
Extended Model	Bits 16-19
Extended Family	Bits 20-23

Processors (continued)

Numeric values returned for family of processor and string values returned by family name of processor are computed using the table below. For an unidentified family name, the "brand string" is returned, if available.

Vendor Name	Family Name	Family	Model	Extended Family
GenuineIntel	8086	0		
	80286	2		
	80386	3		
	80486	4		
	Pentium	5		
	Pentium Pro	6	0-2	
	Pentium II	6	38418	
	Pentium III	6	7 or greater	
	Pentium 4	15	0	0
AuthenticAMD	486	4		
	K5	5	0-5	
	K6	5	6 or greater	
	Athlon	6	1,2,4	
	Duron	6	3	
CyrixInstead	MediaGX	4		
	6x86	5	2	
	GXm	5	Not 2	
	6x86MX	6		
CentaurHauls	C6	5		

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