Tivoli. Endpoint Manager Version 8.1

Solaris Client Inspector Guide





Note: Before using this information and the product it supports, read the information in Notices.
© Copyright IBM Corporation 2003, 2011.
US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.



Contents

Part One	
Introduction	
Audience	2
Conventions Used in this manual	2
Examples	2
Versions	2
Forms	
Part Two	
Inspectors	
World Objects	
World	
Filesystem Objects	
Filesystem	
Filesystem Object	10
File	14
Application	17
Folder	19
File Section	22
File Content	23
Version	24
Mode	25
Mode_mask	27
File Line	28
Symlink	29
Download Storage Folder	32
Device File	33
Fifo File	34
Socket File	35



System Objects	36
Bios	36
Operating System	37
Processor	39
Ram	40
Service	41
Process	42
Language	44
Primary Language	45
Runlevel	45
Zone	46
Zone Network Interface	49
Uuid	49
Uuid with Multiplicity	51
Site Objects	51
Site	51
Site Group	54
Site Version List	55
Fixlet Objects	55
Fixlet	55
Fixlet_header	56
Client Objects	57
Client	57
Setting	59
Selected Server	61
Current Relay	62
Root Server	63
Evaluation Cycle	64
Application Usage Summary	65
Application Usage Summary Instance	66
License Objects	67
License	67
BES Product	70
Environment Objects	71
Environment	71
Environment Variable	72



Authorization Objects	/3
Client_cryptography	73
X509 Certificate	73
User Objects	74
User	74
Action Objects	75
Action	75
Networking Objects	78
Network	78
Network Interface	79
Network Ip Interface	80
Network Adapter	82
Network Adapter Interface	84
Ipv4 Address	86
Ipv4or6 Address	87
Installed System Software	89
Pkgdb	89
Pkginfo	90
Patch	92
Power Inspectors	94
Power Level	94
Key Phrases (Inspectors)	96
Casting Operators	158
Part Three	164
Notices	164
Part Four	
Index	167

Part One

Introduction

The *Tivoli Endpoint Manager Solaris Client Inspector Library* is a guide to the ordinary phrases (known as Inspectors) of the *Relevance Language*[™]. As the name implies, these phrases are used to inspect the properties of those Tivoli Endpoint Manager Clients that run the Solaris OS. Thousands of Inspectors have been created to expose the inner workings of Solaris computers, from the hardware and peripherals to the file system and software.

In addition to these client-specific Inspectors, there are several cross-platform Core Inspectors that are always available to you. These have been included in the keyword section at the end of this guide to provide you with a complete lexicon for Relevance scripting. For more information on the Core Inspectors, see the *Tivoli Endpoint Manager Core Inspector Guide*. Note that the name of the program has changed from *BigFix* to *Tivoli Endpoint Manager*, however most Inspectors still use the BigFix name when referring to the program.

This guide may look imposing, but it reflects a certain amount of redundancy designed to improve accessibility. Each Inspector object has a creation method, listed by type. But objects are also properties of other objects (or the world), so they may be listed twice. In addition, the keyword section echoes the objects yet again, while adding type information and the plural format.

Inspectors can be thought of as object-oriented representations of the underlying computer system. They let you write Relevance expressions to query thousands of aspects of any Tivoli Endpoint Manager Client, instantly and with minimal overhead. Inspectors are keywords in the Relevance Language, so called because it allows content to be targeted to just those computers where it is relevant and no others. Relevance statements non-invasively analyze the Client computer to see if proper conditions exist before attempting remediation. Relevance Expressions are embedded into Action Scripts in such a way as to guarantee that the issue you detect is the one you remediate. In addition, Inspectors can be used to collect properties of any Tivoli Endpoint Manager Client for your own custom analysis in the Tivoli Endpoint Manager Console or Web Reports program.

Relevance and Action scripts are bundled with human-readable content into **Fixlet**® Messages, which can be further grouped into Fixlet Sites and Domains that specific subsets of your network can subscribe to as needed.

The bulk of these Inspectors are multi-platform, allowing one expression to address all the operating systems encountered in a typical network. So, although this guide is explicitly aimed at a single platform, most of these Inspectors have equivalents on other platforms as well. The list of Inspectors grows day by day, as need dictates. For each Inspector, this guide lists (by platform) the version of Tivoli Endpoint Manager where it first debuted.

For more information on how to write Relevance expressions, see the *Tivoli Endpoint Manager Console Operator's Guide* and the *Tivoli Endpoint Manager Relevance Language Reference*.

Solaris Inspector Guide 1



Audience

This guide is for IT managers, product support groups and other people who want to use Inspectors to write Fixlet messages and Tasks for Solaris-based Tivoli Endpoint Manager Clients.

IT managers use the **Tivoli Endpoint Manager** to keep their network of computers up to date and running smoothly without interruption. QA and other support teams can produce customized Fixlet messages to keep their users updated and their support calls to a minimum.

This document describes Inspectors for the Solaris Operating System. Contact your Tivoli Endpoint Manager marketing representative for information about Inspector Guides for other operating systems, including Windows, AIX, HPUX, Macintosh, and a variety of Linux operating systems.

Conventions Used in this manual

This document makes use of the following conventions and nomenclature:

Convention	Use
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 a type, such as string or integer, that is the object of a key phrase. When this document says 'absolute value of <integer>' it indicates that in practice, you will substitute an integer value, as in 'absolute value of 5'.</integer>
Italics	Indicates an Inspector <i>Form.</i> 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 notes the version when it debuted on every relevant operating system (see the following section on Versions).

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

Prior to version 8.1, the program was known as **BigFix** or the **BigFix Enterprise Suite (BES)**. Although the name is now **Tivoli Enterprise Manager**, you will still find many legacy Inspectors that refer to BigFix or BES.

Most Inspectors have equivalent implementations on other operating systems, allowing you to write crossplatform relevance expressions. BigFix/Tivoli Endpoint Manager works across all major computer platforms, including the following:

Win: the Windows version of the Tivoli Endpoint Manager Client and the Tivoli Endpoint Manager Session evaluation context..

Lin: the Red Hat and SUSE Linux version of the Tivoli Endpoint Manager Client.

Sol: the SUN Solaris operating system version of the Tivoli Endpoint Manager Client.

HPUX: the Hewlett-Packard UNIX version of the Tivoli Endpoint Manager Client.

AIX: the AIX version of the Tivoli Endpoint Manager Client.

Mac: the Macintosh version of the Tivoli Endpoint Manager Client.

Ubu: the Ubuntu / Debian version of the Tivoli Endpoint Manager Client.

WM: the Windows Mobile version of the Tivoli Endpoint Manager Client.

There are exceptions due to platform variations and introduction dates. Some of the Inspectors were introduced in later versions of the program, and won't work on all versions of all platforms. To keep track of them, the debut version is listed at the end of the Inspector description, for example:

Win:2.0, Lin:3.1, Sol:7.1, HPUX:5.0, AIX:8.0, WM:7.2

This means that the Inspector of interest debuted in version 2.0 on Windows, but not until version 3.1 on Linux. In fact, version 3.1 of BigFix/Tivoli Endpoint Manager was the first version to include Linux Inspectors. Similarly, the first version for Windows Mobile was 7.2. The Inspector therefore exists on all versions of those two platforms, so the version number is unnecessary and we can simplify the list:

Win:2.0, Lin, Sol:7.1, HPUX:5.0, AIX:8.0, WM

To further streamline this information, the version number is eliminated if it is less than or equal to version 6.0, which is a minimum requirement for most deployments. So the simplified version becomes:

Win, Lin, Sol:7.1, HPUX, AIX:8.0, WM

Forms

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

Form	Syntax	Example
Plain	keyword of <object></object>	address of ip interface
Plain Global	keyword	drives
Named	keyword "name" of <object></object>	variable "PATH" of environment
Named Global	keyword " <i>name</i> "	primary internet connection
Numbered	keyword <i>number</i> of <object></object>	line 5 of file "/usr/lib/foobar"
Numbered Global	keyword <i>number</i>	month 9
Index<(list)>	keyword (list) of <object></object>	substring (1,2) of "abcdefg"
Index<(list)> Global	keyword (list)	integers in (2,-1)
Binary Operator	<object> {op, cmp} <object></object></object>	December – current month
Unary Operator	{op} <object></object>	-month
Cast	<object> as keyword</object>	"4.5" as floating point

These differ from one another in their format and the syntax they require. Except for cast, binary, and unary operators, 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 all listed in the keyword section at the end of this document.

In the following pages, each Inspector is described in terms of the **methods** that are used to create the Inspector object, the **properties** of the object that are available for inspection, the mathematical (binary and unary) **operations** that that can be performed on them, as well as **casting** options to convert the various types.



Part Two

Inspectors

World Objects

These are the plain, named, numbered or indexed global objects. This list is the subset of World objects that return primitive types, such as string, integer, boolean and time.

World

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

Properties

Key Phrase	Form	Return Type	Description
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
computer id	PlainGlobal	<integer></integer>	This is a unique integer assigned to the computer by the BES system. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
computer name	PlainGlobal	<string></string>	Returns a string corresponding to the name of the computer as it appears on the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</string>
dns name	PlainGlobal	<string></string>	Returns the DNS name of the computer. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
domain name	PlainGlobal	<string></string>	Returns the fully qualified domain name of the machine.
			Lin, Sol, HPUX, AIX, Ubu
domainname	PlainGlobal	<string></string>	Same as domain name.
			Lin, Sol, HPUX, AIX, Ubu
download path <string></string>	NamedGlobal	<string></string>	This inspector is available in relevance subsitution action processing. It returns a string corresponding to the download path of the specified file. This Inspector (along with download folder and download file) is designed to be used during the prefetch process of action execution. This is equivalent to '(pathname of download folder) & pathseparator & "myfile".
			Win:7.2, Lin:7.2, Sol:7.2, HPUX:7.2, AIX:7.2, Mac:7.2, WM, Ubu
host name	PlainGlobal	<string></string>	Returns the machine name (the same as the computer name or hostname on UNIX machines).
			Lin, Sol, HPUX, AIX, Ubu
hostname	PlainGlobal	<string></string>	Returns the standard host name, usually for the computer's network.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last relay select time	PlainGlobal	<time></time>	Returns the time when last relay selection took place.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
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.</string></action></string>
			Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
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.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pending restart	PlainGlobal	<boolean></boolean>	Returns TRUE if the operating system indicates that a restart needs to occur.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pending restart name	PlainGlobal	<string></string>	This iterated Inspector returns the names of currently pending restarts.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
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, Lin, Sol, HPUX, AIX, WM, Ubu
wake on lan subnet cidr string	PlainGlobal	<string></string>	Returns the subnet the client is in for Wake on Lan (WoL) purposes. The client sends information to the relay during registration that is used to decide which subnet the client is in. The relay returns the subnet to the client, which is the value this Inspector exposes. This value is used to send WoL commands to forwarders. To wake a machine by computer ID, the server looks up the mac address and subnet of that machine. It then tries to identify clients that have been configured as WoL forwarders within the same subnet and routes WoL commands to those forwarders, sending them the mac address of the machine that needs to be awoken.
			Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu

Examples

- wait "{download path"update.exe"}"
- In an Action script, this line causes the BES Client to perform relevance substitution to compute the full path to the downloaded file (previously collected by a download command in the same Action script). After relevance substitution, the Client launches the specified executable and waits for it to complete before moving on to other Action lines.
- host name
- Returns a string like "localhost.localdomain" or "user.bigcorp".

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. For more information on special Windows folders, see the Resources section at the end of this guide.

Filesystem

The filesystem object can be used to inspect various aspects of mounted file systems, including the format of the file system. Here are some of the possible format types:

- affs
- ext, ext2, ext2_old
- hpfs
- iso
- minix, minix_30, minix2, minix2_30
- msdos
- ncp
- nfs
- proc
- smb
- xenix
- sysv4, sysv2
- coh
- ufs
- xia

Creation Methods

Key Phrase	Form	Description
drive	PlainGlobal	Iterates through all valid drives on the system. Typically used to return a list of the drives (volumes, filesystems) on the client computer.
		On Windows computers, this returns a <drive> object.</drive>
		On *nic computers, this returns a <filesystem> object.</filesystem>
		Drives, volumes and filesystems are treated the same on the Macintosh and return a <volume> type.</volume>
		Lin, Sol, HPUX, AIX, , WM, Ubu



Key Phrase	Form	Description
drive <string></string>	NamedGlobal	Returns the drive associated with the pathname specified by <string>. On Windows computers, this returns a <drive> object. On Macintosh computers, this returns a <volume> object. On *nix computers, this returns a <filesystem> object. Lin, Sol, HPUX, AIX, , WM, Ubu</filesystem></volume></drive></string>
drive of <device file=""></device>	Plain	Returns the drive associated with the specified device file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
drive of <fifo file=""></fifo>	Plain	Returns the drive associated with the specified FIFO (named pipe) file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
drive of <file></file>	Plain	Returns the drive associated with the specified file. On Macintosh computers, this returns a <volume> object. On *nix computers, this returns a <filesystem> object. Lin, Sol, HPUX, AIX, , Ubu</filesystem></volume>
drive of <folder></folder>	Plain	Returns the drive associated with the specified folder. On Macintosh computers, this returns a <volume> object. On *nix computers, this returns a <filesystem> object. Lin, Sol, HPUX, AIX, , Ubu</filesystem></volume>
drive of <socket file=""></socket>	Plain	Returns the drive associated with the specified socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
drive of <symlink></symlink>	Plain	Returns the drive associated with the specified symlink as a <filesystem> object. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</filesystem>
filesystem	PlainGlobal	Returns <filesystem> objects for all currently mounted file systems. Lin, Sol, HPUX, AIX, Ubu</filesystem>
filesystem <string></string>	NamedGlobal	Returns the filesystem object for the name provided. Lin, Sol, HPUX, AIX, Ubu
filesystem of <device file=""></device>	Plain	Returns the filesystem object corresponding to the specified device file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Key Phrase	Form	Description
filesystem of <fifo file=""></fifo>	Plain	Returns the filesystem object corresponding to the specified FIFO file.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
filesystem of <file></file>	Plain	Returns the filesystem on which the file resides.
		Lin, Sol, HPUX, AIX, Ubu
filesystem of <folder></folder>	Plain	Returns the filesystem on which the folder resides.
		Lin, Sol, HPUX, AIX, Ubu
filesystem of <socket file=""></socket>	Plain	Returns the filesystem object corresponding to the specified socket file.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
filesystem of <symlink></symlink>	Plain	Returns the filesystem on which the symlink resides.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
file count of <filesystem></filesystem>	Plain	<integer></integer>	Returns the total number of files that may be saved on this filesystem.
			Lin, Sol, HPUX, AIX, Ubu
free file count of <filesystem></filesystem>	Plain	<integer></integer>	Returns the number of files available on this filesystem.
			Lin, Sol, HPUX, AIX, Ubu
free percent of <filesystem></filesystem>	Plain	<integer></integer>	Returns the percentage of the file system currently available.
			Lin, Sol, HPUX, AIX, Ubu
free space of	Plain	<integer></integer>	Returns the number of bytes on this filesystem.
<filesystem></filesystem>			Lin, Sol, HPUX, AIX, Ubu
name of <filesystem></filesystem>	Plain	<string></string>	Returns the mount point of the filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
size of <filesystem></filesystem>	Plain	<integer></integer>	Returns the total number of bytes on this file system (same as total space).
			Lin, Sol, HPUX, AIX, Ubu
total space of <filesystem></filesystem>	Plain	<integer></integer>	Returns the total number of bytes on this file system (same as size).
			Lin, Sol, HPUX, AIX, Ubu



Key Phrase	Form	Return Type	Description
type of <filesystem></filesystem>	Plain	<string></string>	Returns the filesystem format type, as listed in the type header. Lin, Sol, HPUX, AIX, Ubu
used file count of <filesystem></filesystem>	Plain	<integer></integer>	The number of files in use on this filesystem. Lin, Sol, HPUX, AIX, Ubu
used percent of <filesystem></filesystem>	Plain	<integer></integer>	Returns the percentage of the file system currently in use. Lin, Sol, HPUX, AIX, Ubu
used space of <filesystem></filesystem>	Plain	<integer></integer>	Returns the number of bytes on this filesystem currently in use. Lin, Sol, HPUX, AIX, Ubu

Examples

- names of drives
- Returns the names of the mounted drives.
- names of filesystems
- Returns the mount points of the file systems.
- (name of it, type of it) of filesystems
- Returns the names and types of all mounted file systems.

Filesystem Object

These Inspectors provide handles for the various objects available in the file system.

Properties

Key Phrase	Form	Return Type	Description
<filesystem object=""> as device file</filesystem>	Cast	<device file></device 	Returns a device file or nothing (if the filesystem object specified is not a device file). Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<pre><filesystem object=""> as fifo file</filesystem></pre>	Cast	<fifo file=""></fifo>	Returns a FIFO file or nothing (if the filesystem object specified is not a FIFO file). Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<pre><filesystem object=""> as socket file</filesystem></pre>	Cast	<socket file></socket 	Casts a given filesystem object as a socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Key Phrase	Form	Return Type	Description
<filesystem object=""> as</filesystem>	Cast	<string></string>	Casts a filesystem object as a string.
string			Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
<filesystem object=""> as</filesystem>	Cast	<symlink></symlink>	Casts a link in the form of a file into a symlink.
symlink			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
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, Lin, Sol, HPUX, AIX, WM, Ubu
ancestor of <filesystem object=""></filesystem>	Plain	<folder></folder>	Returns all ancestor folders (recursive parent folders) of the given filesystem object (file or folder).
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
gid of <filesystem< td=""><td>Plain</td><td><integer></integer></td><td>Returns the group ID of the given filesystem object.</td></filesystem<>	Plain	<integer></integer>	Returns the group ID of the given filesystem object.
object>			Lin, Sol, HPUX, AIX, Ubu
group execute of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the group execute flag is set for the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
group mask of <filesystem object=""></filesystem>	Plain	<integer></integer>	Returns the group permission mask of the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
group name of <filesystem object=""></filesystem>	Plain	<string></string>	Returns the group name of the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
group read of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the group read flag is set for the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
group write of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the group write flag is set for the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
link count of <filesystem object=""></filesystem>	Plain	<integer></integer>	Returns an integer corresponding to the number of hard links attached to the specified filesystem object.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
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, Lin, Sol, HPUX, AIX, WM, Ubu
mode of <filesystem object=""></filesystem>	Plain	<mode></mode>	Returns the permissions mode for the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu



Key Phrase	Form	Return Type	Description
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
other execute of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if others (not in the group) have execute permissions on the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
other mask of <filesystem object=""></filesystem>	Plain	<integer></integer>	Returns the other (not in the group) mask as a 3-bit integer corresponding to rwx permissions for the specified filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
other read of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if others (not in the group) have read permissions on the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
other write of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if others (not in the group) have write permissions on the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
parent folder of	Plain	<folder></folder>	The folder containing the specified file or folder.
<filesystem object=""></filesystem>			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pathname of <filesystem object=""></filesystem>	Plain	<string></string>	Returns the full pathname of the specified file or folder (filesystem object) as a string.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
setgid of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the setgid (group ID) bit is set for the specified filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
setuid of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the setuid (user ID) bit is set for the specified filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
uid of <filesystem object=""></filesystem>	Plain	<integer></integer>	The user ID of the user who owns this filesystem object.
			Lin, Sol, HPUX, AIX, Ubu
user execute of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns TRUE if the owner (user) has execute permissions on the given filesystem object.
			Lin, Sol, HPUX, AIX, Ubu

Key Phrase	Form	Return Type	Description
user mask of <filesystem object=""></filesystem>	Plain	<integer></integer>	Integer representing user permissions (3 bit mask, RWX) on the specified filesystem object. Lin, Sol, HPUX, AIX, Ubu
user name of <filesystem object=""></filesystem>	Plain	<string></string>	Returns the owner (user) name of the specified filesystem object. Lin, Sol, HPUX, AIX, Ubu
user read of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns the owner (user) read permissions for the specified filesystem object. Lin, Sol, HPUX, AIX, Ubu
user write of <filesystem object=""></filesystem>	Plain	<boolean></boolean>	Returns the owner (user) write permissions for the specified filesystem object. Lin, Sol, HPUX, AIX, Ubu

Examples

- file "/example/link" as symlink
- Returns the link (in file format) as a symlink object ("/example/link").



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.

• NOTE: 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.

Type Derivation: This object type is derived from the <filesystem object> type and therefore shares the same properties as that type.

CAUTION: Some file content Inspectors can cause contention issues with other applications, regardless of the platform. These Inspectors open up the file for read access with maximal sharing with other applications. However, if other applications try to access the file with exclusive rights, they will fail. The set of Inspectors that hold a handle to the file are: 'lines of file', 'contents of file' and 'sha1 of file'.

Creation Methods

See application objects for additional creation methods

Key Phrase	Form	Description
<symlink> as file</symlink>	Cast	Converts a symlink object into the file it points to.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
default web browser	PlainGlobal	Creates an object corresponding to the default web browser. This is a Windows and Macintosh inspector; it will fail gracefully on other operating systems instead of generating an error.
		 Note: This Inspector returns a <file> object on UNIX, an <application> on Windows and a <filesystem object=""> on the Mac.</filesystem></application></file>
		Lin, Sol, HPUX, AIX, Ubu
descendant of <folder></folder>	Plain	Returns a list of all the descendant files of the specified folder.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
download file <string></string>	NamedGlobal	This inspector is available in relevance substitution action processing. It returns a file object with the given name from the named folder or the download folder. This is equivalent to 'file "name" of download folder'. The file should exist or the result will not exist.
		Win:7.2, Lin:7.2, Sol:7.2, HPUX:7.2, AIX:7.2, Mac:7.2, WM, Ubu
file <string></string>	NamedGlobal	Returns a filesystem object corresponding to the full pathname provided in <string>.</string>
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Description
file <string> of <folder></folder></string>	Named	Creates the file objects corresponding to the named file within the folder.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
file <symlink></symlink>	Index <symlink>Global</symlink>	Returns the file pointed to by the specified symlink. If the file doesn't exist, this Inspector will throw a 'non-existent object' error.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
file of <folder></folder>	Plain	Iterates through the files of a folder.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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. A wildcard string uses an asterisk to stand for any number of characters (incuding zero), and a question mark to stand for exactly one character. Thus A??.txt would match All.txt and AXE.txt but not all.txt or a.txt.</string>
		Win, Lin, Sol, HPUX, AIX, Mac:8.0, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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. CAUTION: This Inspector maintains a handle to the specified file, so during its operation it may block any other applications that attempt to open the file. Inspectors open files as with both read and write sharing, so apps that open with compatibleaccess will not block. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
drive of <file></file>	Plain	<filesystem></filesystem>	Returns the drive associated with the specified file as a <filesystem> object. Lin, Sol, HPUX, AIX, Ubu</filesystem>
filesystem of <file></file>	Plain	<filesystem></filesystem>	Returns the UNIX filesystem flag for the given file. Lin, Sol, HPUX, AIX, Ubu



Key Phrase	Form	Return Type	Description
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, Lin, Sol, HPUX, AIX, Mac, Ubu
line <integer> of <file></file></integer>	Numbered	<file line=""></file>	Returns the nth line (specified by <integer>) from the given file.</integer>
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
line containing <string> of <file></file></string>	Named	<file line=""></file>	Returns all lines from the given file that contain the specified string.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
line of <file></file>	Plain	<file line=""></file>	Iterates over all the lines of the specified file. NOTE: lines are truncated to 1023 characters. CAUTION: This Inspector maintains a handle to the specified file, so during its operation it may block any other applications that attempt to open the file. Inspectors open files as with both read and write sharing, so apps that open with compatibleaccess will not block.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
line starting with <string> of <file></file></string>	Named	<file line=""></file>	Same as line <string> of <file>, returns the lines of the given file that start with the specified string.</file></string>
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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.
	 	<u> </u>	Win, Lin, Sol, HPUX, AIX, Mac, Ubu
sha1 of <file></file>	Plain	<string></string>	Returns the sha1 checksum of the file hex encoded as a 40 character long string. CAUTION: This Inspector maintains a handle to the specified file, so during its operation it may block any other applications that attempt to open the file. Inspectors open files as with both read and write sharing, so apps that open with compatibleaccess will not block.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
size of <file></file>	Plain	<integer></integer>	Returns the size in bytes of a file.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
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, Lin, Sol, HPUX, AIX, WM, Ubu

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. Iterating through folders with many files can be time consuming.

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.

Examples

- wait "{pathname of download file "update.exe"}"
- In an Action script, this line causes the BES Client to perform relevance substitution to compute the full path to the downloaded file (previously collected by a download command in the same Action script). After relevance substitution, the Client launches the specified executable and waits for it to complete before moving on to other Action lines.
- 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"
- TRUE if the masthead is older than the specified date.

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.

• NOTE: 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.

Type Derivation: This object type is derived from the <file> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
application <string></string>	NamedGlobal	Creates an application object for the name provided.
		Win, Lin, Sol, HPUX, AIX, WM, Ubu
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, Lin, Sol, HPUX, AIX, WM, Ubu
recent application	PlainGlobal	Iterates through the list of recently executed applications, creating application objects. This includes the list of all currently running applications.
		Win, Lin, Sol:8.1, WM, Ubu
recent application <string></string>	NamedGlobal	If named application has been executed recently, this inspector creates an application object. Only specify the last component of the filename.
		Win, Lin, Sol:8.1, WM, Ubu
running application	PlainGlobal	Iterates through the list of running applications.
		Win, Lin, Sol:8.1, WM, Ubu
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, Lin, Sol:8.1, WM, Ubu

Examples

- 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.
- 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. These Inspectors allow you to examine dozens of properties of folder 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.

Type Derivation: This object type is derived from the <filesystem object> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
<symlink> as folder</symlink>	Cast	Converts a symlink object into the folder it points to.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
ancestor of <filesystem object=""></filesystem>	Plain	Returns all ancestor folders (recursive parent folders) of the given filesystem object (file or folder).
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ancestor of <symlink></symlink>	Plain	Returns all ancestor folders (recursive parent folders) of the given symlink.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
client folder of <site></site>	Plain	Creates an object corresponding to the folder on the client where site data is gathered.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
descendant folder of <folder></folder>	Plain	Returns the descendant folders, recursively, of the given folder. The folder equivalent of "descendants of <folder>".</folder>
		Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
find folder <string> of <folder></folder></string>	Named	Finds the folder with the given wildcard name inside another folder. A wildcard string uses an asterisk to stand for any number of characters (incuding zero), and a question mark to stand for exactly one character. Thus A??.txt would match All.txt and AXE.txt but not all.txt or a.txt.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
folder <string></string>	NamedGlobal	Creates a folder object for the named folder. This is a global property.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Description
folder <symlink></symlink>	Index <symlink>Global</symlink>	Returns the folder pointed to by the specified symlink.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
folder of <folder></folder>	Plain	Iterates through the sub-folders of the folder object.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
parent folder of	Plain	The folder containing the specified file or folder.
<filesystem object=""></filesystem>		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
parent folder of <symlink></symlink>	Plain	Creates a folder object corresponding to the parent folder of the given symlink.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
root folder	PlainGlobal	Returns the folder corresponding to '/'.
		Lin, Sol, HPUX, AIX, Ubu

Properties

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, Lin, Sol, HPUX, AIX, WM, Ubu
descendant folder of <folder></folder>	Plain	<folder></folder>	Returns the descendant folders, recursively, of the given folder. The folder equivalent of "descendants of <folder>". Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu</folder>
descendant of <folder></folder>	Plain	<file></file>	Returns a list of all the descendant files of the specified folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
device file <string> of <folder></folder></string>	Named	<device file=""></device>	Returns the device file with the specified name in the given folder. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
device file of <folder></folder>	Plain	<device file=""></device>	Returns the device files that exist in the specified folder. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
drive of <folder></folder>	Plain	<filesystem></filesystem>	Creates the drive object corresponding to the folder location. Included for compatibility with Windows machines, this Inspector is the same as filesystem of <folder>. Lin, Sol, HPUX, AIX, Ubu</folder>

Key Phrase	Form	Return Type	Description
fifo file <string> of <folder></folder></string>	Named	<fifo file=""></fifo>	Returns the FIFO file (named pipe) with the given name in the specified folder.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
fifo file of <folder></folder>	Plain	<fifo file=""></fifo>	Returns the list of FIFO file in the given folder.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
file <string> of <folder></folder></string>	Named	<file></file>	Returns a file object for the named file located in the folder.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
filesystem of <folder></folder>	Plain	<filesystem></filesystem>	Returns the filesystem on which the folder resides.
			Lin, Sol, HPUX, AIX, Ubu
find file <string> of <folder></folder></string>	Named	<file></file>	Iterates through the files of a folder returning file objects whose name matches the wildcard string provided in the name parameter. A wildcard string uses an asterisk to stand for any number of characters (incuding zero), and a question mark to stand for exactly one character. Thus A??.txt would match All.txt and AXE.txt but not all.txt or a.txt. See example below.
			Win, Lin, Sol, HPUX, AIX, Mac:8.0, WM, Ubu
find folder <string> of <folder></folder></string>	Named	<folder></folder>	Finds the folder with the given wildcard name inside another folder. A wildcard string uses an asterisk to stand for any number of characters (incuding zero), and a question mark to stand for exactly one character. Thus A??.txt would match All.txt and AXE.txt but not all.txt or a.txt.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
socket file <string> of <folder></folder></string>	Named	<socket file=""></socket>	Returns the socket file with the given name in the specified folder.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu



Key Phrase	Form	Return Type	Description
socket file of <folder></folder>	Plain	<socket file=""></socket>	Returns the socket file(s) in the specified folder.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
symlink <string> of <folder></folder></string>	Named	<symlink></symlink>	Returns the named symlink from the specified folder.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink of <folder></folder>	Plain	<symlink></symlink>	Returns the symlink(s) in the specified folder, whether or not they are broken.
			NOTE: This behavior differs from looking for files in a folder. Although that returns links along with the files, it doesn't return broken links.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu

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 careful not to iterate through folders that contain a large number of files. Counting files in such a folder can be slow. Always try to use the most efficient techniques to minimize the client overhead. Consider using the "find file" Inspector which allows you to filter sets of files by using the wildcard.

Examples

- exists folder "/usr/lib"
- Checks for the existence of the usr/lib folder.
- exists folder "tmp" of root folder
- Returns TRUE if tmp is a subdirectory of the root directory.

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, Lin, Sol, HPUX, AIX, Mac, Ubu

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, Lin, Sol, HPUX, AIX, Mac, Ubu

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.

Examples

- key "Manufacturer" of section "General" of file "/etc/oeminfo"
- Returns the value of the "Manufacturer" key of the section named "General" of the specified file.

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
<file content=""> as uppercase</file>	Cast	Returns the contents of the file as upper case characters.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
content of <file></file>	Plain	Creates a content object for a file. CAUTION: This Inspector maintains a handle to the specified file, so during its operation it may block any other applications that attempt to open the file. Inspectors open files as with both read and write sharing, so apps that open with compatibleaccess will not block. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
<file content=""> as lowercase</file>	Cast	<file content></file 	Returns a lowercase version of the content provided.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Return Type	Description
<file content=""> as uppercase</file>	Cast	<file content></file 	Returns an uppercase version of the content provided.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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

Examples

- 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. Version types are available as both client and core Inspectors, so if you don't find what you want in one guide, please check the other.

Creation Methods

Key Phrase	Form	Description
version of <application td="" usage<=""><td>Plain</td><td>Returns the version of the specified application instance.</td></application>	Plain	Returns the version of the specified application instance.
summary instance>		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
version of <client></client>	Plain	The product version of the BES application (BESClient or QnA).
		Lin, Sol, HPUX, AIX, Mac:7.1, Ubu
version of <current relay=""></current>	Plain	Returns a version object that is the version of the server or relay that the client last registered with. This may be a BES Relay or the BES root server.
		Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
version of <service></service>	Plain	This Inspector takes the specified service property and retrieves its version (file version).
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

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.

Examples

- version of client as string
- Returns a string like "4.0.3.7".

Mode

The mode inpector returns file type information and permissions. These are the possible values of mode:

- S IFMT 170000 bitmask for the file type bitfields
- S_IFSOCK 140000 socket
- S_IFLNK 120000 symbolic link
- S_IFREG 100000 regular file
- S IFBLK 060000 block device
- S_IFDIR 040000 directory
- S_IFCHR 020000 character device
- S IFIFO 010000 fifo
- S_ISUID 004000 set UID bit
- S_ISGID 002000 set GID bit
- S_ISVTX 001000 sticky bit
- S_IRWXU 000700 mask for file owner permissions
- S_IRUSR 000400 owner has read permission
- S IWUSR 000200 owner has write permission
- S_IXUSR 000100 owner has execute permission
- S_IRWXG 000070 mask for group permissions
- S_IRGRP 000040 group has read permission
- S_IWGRP 000020 group has write permission
- S_IXGRP 000010 group has execute permission
- S_IRWXO 000007 mask for permissions for others (not in group)
- S_IROTH 000004 others have read permission
- S_IWOTH 000002 others have write permission
- S IXOTH 000001 others have execute permission



Creation Methods

Key Phrase	Form	Description
mode of <filesystem object=""></filesystem>	Plain	Returns the permissions mode for the given filesystem object.
		Lin, Sol, HPUX, AIX, Ubu

Properties

Key Phrase	Form	Return Type	Description
<mode> as octal string</mode>	Cast	<string></string>	Converts the mode to a string of octal numbers.
			Lin, Sol, HPUX, AIX, Ubu
<mode> as string</mode>	Cast	<string></string>	Converts the mode to a string.
			Lin, Sol, HPUX, AIX, Ubu
group mask of <mode></mode>	Plain	<mode_mask></mode_mask>	Returns the mask for group permissions for the given mode.
			Lin, Sol, HPUX, AIX, Ubu
other mask of <mode></mode>	Plain	<mode_mask></mode_mask>	Returns the mask for permissions for others (those not in the group) for the given mode.
			Lin, Sol, HPUX, AIX, Ubu
setgid of <mode></mode>	Plain	<boolean></boolean>	Returns TRUE if setgid (the group ID flag) is set.
			Lin, Sol, HPUX, AIX, Ubu
setuid of <mode></mode>	Plain	<boolean></boolean>	Returns TRUE if setuid (the user ID flag) is set.
			Lin, Sol, HPUX, AIX, Ubu
sticky of <mode></mode>	Plain	<boolean></boolean>	The `sticky' bit (S_ISVTX) on a directory means that a file in that directory can be renamed or deleted only by the owner of the file, by the owner of the directory, and by root. This inspector returns TRUE if the sticky bit of the given mode is on.
			Lin, Sol, HPUX, AIX, Ubu
user mask of <mode></mode>	Plain	<mode_mask></mode_mask>	Returns the mask for the user (file owner) permissions for the given mode.
			Lin, Sol, HPUX, AIX, Ubu

Mode_mask

The mode_mask Inspector is a differently formatted version of the mode, created by shifting the key information down to the low three bits.

Creation Methods

Key Phrase	Form	Description
group mask of <mode></mode>	Plain	The rwx mask (shifted to the lower 3 bits) for group permissions for the given mode. Lin, Sol, HPUX, AIX, Ubu
other mask of <mode></mode>	Plain	The rwx mask (shifted to the lower 3 bits) for permissions for others (those not in the group) for the given mode. Lin, Sol, HPUX, AIX, Ubu
user mask of <mode></mode>	Plain	The rwx mask (shifted to the lower 3 bits) for permissions for the user (the file owner) for the given mode. Lin, Sol, HPUX, AIX, Ubu

Properties

Key Phrase	Form	Return Type	Description
<mode_mask> as integer</mode_mask>	Cast	<integer></integer>	Converts the mode mask to an integer, 1-4. Lin, Sol, HPUX, AIX, Ubu
<mode_mask> as string</mode_mask>	Cast	<string></string>	Converts the mode mask to a string, for example "rwx". Lin, Sol, HPUX, AIX, Ubu
execute of <mode_mask></mode_mask>	Plain	<boolean></boolean>	Returns TRUE if the execute flag (x) of the rwx mode mask is on. (binary 001 = 1). Lin, Sol, HPUX, AIX, Ubu
read of <mode_mask></mode_mask>	Plain	<boolean></boolean>	Returns TRUE if the read flag of the rwx mode mask is on. (binary 100 = 4). Lin, Sol, HPUX, AIX, Ubu
write of <mode_mask></mode_mask>	Plain	<boolean></boolean>	Returns TRUE if the write flag (w) of the rwx mode mask is on. (binary 010 = 2). Lin, Sol, HPUX, AIX, Ubu



File Line

A file line is a string from a text file.

Type Derivation: This object type is derived from the <string> type and therefore shares the same properties as that type.

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
line containing <string> of <file></file></string>	Named	Returns the line with the specified search string in the given file.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
line of <file></file>	Plain	Returns the lines of a specified file.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
line starting with <string> of <file></file></string>	Named	Returns a line from the given file beginning with the specified phrase.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Symlink

Symlinks, or symbolic links, are the Unix version of shortcut files (pointers to other files). Inspectors can analyze the file objects (files and folders) that symlinks point to by using the standard file Inspectors. The symlink Inspectors, on the other hand, allow you to analyze the properties of a symlink itself, not just the underlying file. There are many properties that symlinks have in common with files, such as name, pathname, parent folder, and more. In addition, a symlink has a value corresponding to the file object it points to. You can also determine if the file is available or not.

Creation Methods

Key Phrase	Form	Description
<filesystem object=""> as</filesystem>	Cast	Casts a link in the form of a file into a symlink.
symlink		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
<symlink> as symlink</symlink>	Cast	Casts a symlink, provided for completeness.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <filesystem object=""></filesystem>	Index <filesystem object="">Global</filesystem>	Creates a symlink from the specified filesystem object.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <string></string>	NamedGlobal	Creates a symlink from the specified string.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <string> of</string>	Named	Returns the named symlink from the specified folder.
<folder></folder>		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <symlink></symlink>	Index <symlink>Global</symlink>	Creates a symlink from the specified symlink path, even if the symlink is broken.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink of <folder></folder>	Plain	Returns the symlink(s) in the specified folder, whether or not they are broken.
		NOTE: This behavior differs from looking for files in a folder. Although that returns links along with the files, it doesn't return broken links.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu



Key Phrase	Form	Return Type	Description
<symlink> as device file</symlink>	Cast	<device file=""></device>	Casts a symlink type as a device file type.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<symlink> as fifo file</symlink>	Cast	<fifo file=""></fifo>	Casts a symlink type as a FIFO (named pipe) file.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<symlink> as file</symlink>	Cast	<file></file>	Converts a symlink object into the file it points to.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
<symlink> as folder</symlink>	Cast	<folder></folder>	Converts a symlink object into the folder it points to.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
<symlink> as socket file</symlink>	Cast	<socket file=""></socket>	Casts a symlink type as a socket file type.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<symlink> as string</symlink>	Cast	<string></string>	Casts a symlink object as a string.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
<symlink> as symlink</symlink>	Cast	<symlink></symlink>	Casts a symlink, provided for completeness.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
accessed time of <symlink></symlink>	Plain	<time></time>	Returns the last accessed time of the specified symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
ancestor of <symlink></symlink>	Plain	<folder></folder>	Returns all ancestor folders (recursive parent folders) of the given symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
change time of <symlink></symlink>	Plain	<time></time>	Returns the last time the specified symlink was 'changed' by either writing it or setting its inode information.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
drive of <symlink></symlink>	Plain	<filesystem></filesystem>	Returns the drive associated with the specified symlink as a <filesystem> object.</filesystem>
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
filesystem of <symlink></symlink>	Plain	<filesystem></filesystem>	Returns the filesystem on which the symlink resides.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
gid of <symlink></symlink>	Plain	<integer></integer>	Returns the group ID of the given symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
group name of	Plain	<string></string>	Returns the group name of the specified symlink.
<symlink></symlink>			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu

Key Phrase	Form	Return Type	Description
link count of <symlink></symlink>	Plain	<integer></integer>	Returns an integer corresponding to the number of hard links attached to the specified symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
location of <symlink></symlink>	Plain	<string></string>	Returns a string corresponding to the directory in which the symlink is located.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
modification time of <symlink></symlink>	Plain	<time></time>	Returns the time corresponding to the modification time of the specified symlink, not the file it points to.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
name of <symlink></symlink>	Plain	<string></string>	Returns a string that is the full pathname of the specified symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
parent folder of <symlink></symlink>	Plain	<folder></folder>	Creates a folder object corresponding to the parent folder of the given symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
pathname of <symlink></symlink>	Plain	<string></string>	Returns a string that contains the full pathname of the specified symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
uid of <symlink></symlink>	Plain	<integer></integer>	The user ID of the user who owns this symlink.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
user name of <symlink></symlink>	Plain	<string></string>	Returns the symlink owner's (user's) name.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
value accessible of <symlink></symlink>	Plain	<boolean></boolean>	Returns TRUE if the pathname pointed to by the specified symlink is available. Returns FALSE if the file object is missing or unavailable with the current permissions.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
value of <symlink></symlink>	Plain	<string></string>	Returns the pathname that the symlink points to.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu

Examples

- file "/example/link" as symlink
- Returns the link (in file format) as a symlink object ("/example/link").
- symlinks of folder "/example"
- Returns a list of the symlink in the specified folder, whether or not they are broken. Note that this behavior is different from looking for files in a folder -- that will return links as well as files, but won't return broken links.



- modification time of symlink "/example/link"
- Returns the time corresponding to the modification time of the given symlink, not the file it points to.
- modification time of file "/example/link"
- Returns the time corresponding to the file object that the symlink is pointing to.

Download Storage Folder

Before an Action executes, the download storage folder points to a temporary directory that holds the downloads for the Action. During execution of the Action, those downloads are moved to the standard BigFix __Download folder and the Inspector then points there. These Inspectors return information about the currently specified download storage folder, and can be used with relevance substitution in download and prefetch Action commands.

Type Derivation: This object type is derived from the <folder> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
download storage folder	PlainGlobal	This Inspector creates a pointer to the current download storage folder.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
total size of <download folder="" storage=""></download>	Plain	<integer></integer>	Returns the amount of storage currently being used to store downloads (in bytes).
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Device File

These Inspector types interrogate Unix-style device files, which contain device drivers or system resources. Unix identifies these resources by a major number and a minor number, both stored as part of a node structure. Typically, the major number identifies the device driver and the minor number identifies the particular device controlled by that driver.

Type Derivation: This object type is derived from the <filesystem object> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
<pre><filesystem object=""> as device file</filesystem></pre>	Cast	Returns a device file or nothing (if the filesystem object specified is not a device file).
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<symlink> as device file</symlink>	Cast	Casts a symlink type as a device file type.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
device file <filesystem object=""></filesystem>	Index <filesystem object="">Global</filesystem>	Returns the device file indicated by the specified filesystem object.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
device file <string></string>	NamedGlobal	Returns the device file with the specified name.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
device file <string> of <folder></folder></string>	Named	Returns the device file with the specified name in the given folder.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
device file <symlink></symlink>	Index <symlink>Global</symlink>	Returns the device file specified by the supplied symbolic link.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
device file of <folder></folder>	Plain	Returns the device files that exist in the specified folder.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
device type of <device file=""></device>	Plain	<string></string>	Returns the device type corresponding to the give device file, as a string.
			Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu



Key Phrase	Form	Return Type	Description
drive of <device file=""></device>	Plain	<filesystem></filesystem>	Returns the drive associated with the specified device file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
filesystem of <device file=""></device>	Plain	<filesystem></filesystem>	Returns the filesystem object corresponding to the specified device file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
major of <device file=""></device>	Plain	<integer></integer>	Returns the major number of the specified device file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
minor of <device file=""></device>	Plain	<integer></integer>	Returns the minor number of the specified device file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Fifo File

In Unix systems, a FIFO file is a named pipe that uses the file system as a way to store the pipe name. These Inspectors provide access to these named pipes.

Type Derivation: This object type is derived from the <filesystem object> type and therefore shares the same properties as that type.

Key Phrase	Form	Description
<filesystem object=""> as fifo file</filesystem>	Cast	Returns a FIFO file or nothing (if the filesystem object specified is not a FIFO file).
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<symlink> as fifo file</symlink>	Cast	Casts a symlink type as a FIFO (named pipe) file.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
fifo file <filesystem object=""></filesystem>	Index <filesystem object="">Global</filesystem>	Returns the FIFO file (named pipe) described by the specified filesytem object.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
fifo file <string></string>	NamedGlobal	Returns the FIFO file (named pipe) with the given name.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
fifo file <string> of <folder></folder></string>	Named	Returns the FIFO file (named pipe) with the given name in the specified folder.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Key Phrase	Form	Description
fifo file <symlink></symlink>	Index <symlink>Global</symlink>	Returns the FIFO file (named pipe) described by the specified symbolic link (symlink).
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
fifo file of <folder></folder>	Plain	Returns the list of FIFO file in the given folder.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Key Phrase	Form	Return Type	Description
drive of <fifo file=""></fifo>	Plain	<filesystem></filesystem>	Returns the drive associated with the specified FIFO (named pipe) file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
filesystem of <fifo file=""></fifo>	Plain	<filesystem></filesystem>	Returns the filesystem object corresponding to the specified FIFO file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Socket File

These Inspectors allow you to interrogate socket files, which are representations of UNIX domain sockets identified by their pathname.

Type Derivation: This object type is derived from the <filesystem object> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
<filesystem object=""> as socket file</filesystem>	Cast	Casts a given filesystem object as a socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<symlink> as socket file</symlink>	Cast	Casts a symlink type as a socket file type. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
socket file <filesystem object=""></filesystem>	Index <filesystem object>Global</filesystem 	Returns the socket file(s) indicated by the supplied filesystem object. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
socket file <string></string>	NamedGlobal	Returns the named socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu



Key Phrase	Form	Description
socket file <string> of <folder></folder></string>	Named	Returns the socket file with the given name in the specified folder.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
socket file <symlink></symlink>	Index <symlink>Global</symlink>	Returns the socket file(s) indicated by the supplied symlink.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
socket file of <folder></folder>	Plain	Returns the socket file(s) in the specified folder.
		Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Key Phrase	Form	Return Type	Description
drive of <socket file=""></socket>	Plain	<filesystem></filesystem>	Returns the drive associated with the specified socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
filesystem of <socket file=""></socket>	Plain	<filesystem></filesystem>	Returns the filesystem object corresponding to the specified socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

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

36

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.

Key Phrase	Form	Description
bios	PlainGlobal	Returns the date of the bios if it exists, or <unknown> if it does not exist. This is a Windows-only command. On a non-Windows system, bios returns False. Win, Lin, Sol, HPUX, AIX, Mac, Ubu</unknown>

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, Lin, Sol, HPUX, AIX, Mac, Ubu
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, Lin, Sol, HPUX, AIX, Mac, Ubu
version of <bios></bios>	Plain	<string></string>	This Windows-only Inspector returns the first string of the multi-string version 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, Lin, Sol, HPUX, AIX, Mac, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
architecture of <operating system=""></operating>	Plain	<string></string>	Returns the architecture of the operating system. This is the value of the 'machine' element of the utsname structure obtained by calling uname. Lin, Sol, HPUX, AIX, Mac, Ubu
boot time of <operating system=""></operating>	Plain	<time></time>	Returns the time of the last restart. Win, Lin, Sol, HPUX, AIX, Mac, Ubu



Key Phrase	Form	Return Type	Description
build of <operating system=""></operating>	Plain	<string></string>	Returns a string corresponding to the build number of the OS.
			Lin, Sol, HPUX, AIX, Mac, Ubu
codename of <operating system=""></operating>	Plain	<string></string>	This *NIX Inspector returns a string that corresponds to the codename of the given release. For example, Ubuntu 8.04 has the codename of 'hardy'.
			Lin:8.1, Sol:8.1, HPUX:8.1, AIX:8.1, Ubu
mac of <operating< td=""><td>Plain</td><td><boolean></boolean></td><td>Returns TRUE if the client computer is a Macintosh.</td></operating<>	Plain	<boolean></boolean>	Returns TRUE if the client computer is a Macintosh.
system>			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
name of <operating system=""></operating>	Plain	<string></string>	Returns the name of the operating system as a string. Names might include Win98, WinNT, etcetera.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
release of <operating system=""></operating>	Plain	<string></string>	Information about the release of the operating system, formatted as a <version> on the Macintosh, but a <string> on UNIX and Windows.</string></version>
			Win, Lin, Sol, HPUX, AIX, , WM, Ubu
unix of <operating system=""></operating>	Plain	<boolean></boolean>	Returns TRUE if the local computer is a UNIX system.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
uptime of <operating system=""></operating>	Plain	<time interval></time 	Returns a time interval that represents the elapsed time since the operating system was last booted. • Note: Depending on the notebook, this interval may not include time spent in hibernation. Win, Lin, Sol, HPUX, AIX, Mac, Ubu
windows of <operating system=""></operating>	Plain	<boolean></boolean>	Returns TRUE if the local computer is a Windows system.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Examples

- now boot time of operating system > week
- Returns TRUE if the computer hasn't been rebooted for over a week.
- name of operating system contains "Sun"
- Returns TRUE on a typical Solaris system.

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.

• For more information on Windows processors, see the Resource section at the end of this guide.

Creation Methods

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

Properties

Key Phrase	Form	Return Type	Description
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, etcetera.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
family of <pre>cessor></pre>	Plain	<string></string>	A string representing the family of the CPU.
			Sol, AIX
fputype of <pre><pre>continue</pre></pre>	Plain	<string></string>	Returns pi_fputypes, a string containing the comma-separated types of floating-point units (FPUs) attached to the processor. This string will be empty if no FPU is attached.
id of <pre>cessor></pre>	Plain	<integer></integer>	Returns an integer corresponding to the ID of the specified processor. Sol, AIX
index of <pre><pre>content</pre></pre>	Plain	<integer></integer>	Returns the ordinal number of the processor on a multi processor machine. Lin, Sol, HPUX, AIX, Ubu



Key Phrase	Form	Return Type	Description
model of <pre></pre>	Plain	<string></string>	Returns the model number of the CPU as a string. • Note: On Windows and Linux platforms, this Inspector returns an integer. Sol, HPUX, AIX
speed of <pre><pre>cessor></pre></pre>	Plain	<hertz></hertz>	Returns the speed of the processor in Hertz. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
state of <pre><pre>cessor></pre></pre>	Plain	<string></string>	Returns the current processor state, which can be "online", "offline", "poweroff", or "unknown".
type of <pre>cessor></pre>	Plain	<string></string>	Numeric type of the CPU. Values include: • 0 - standard • 1 - overdrive • 2 - dual CPU capable • 3 - reserved • Note: this Inspector returns an <integer> type as on Windows platforms. Sol, AIX, Mac</integer>

Examples

- number of processors > 1
- Returns TRUE if the computer is a multi-processor system.
- family name of main processor = "sparcv9"
- Returns TRUE if the computer has the specified main processor family name.
- speed of main processor < 2000 * MHz
- Returns TRUE is the cpu is slower than 2Ghz.

Ram

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

Key Phrase	Form	Description
ram	PlainGlobal	Creates the object that can be accessed to inspect the amount of ram on the machine.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Description
random access memory	PlainGlobal	Same as 'ram'.
		Win, Lin, Sol, HPUX, AIX, WM, Ubu

Key Phrase	Form	Return Type	Description
free amount of <ram></ram>	Plain	<integer></integer>	Returns the amount of system RAM currently unused, in bytes. Lin, Sol, HPUX, AIX, Ubu
size of <ram></ram>	Plain	<integer></integer>	Returns the number of bytes of random access memory on the current machine. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
total amount of <ram></ram>	Plain	<integer></integer>	Same as size of <ram>. Lin, Sol, HPUX, AIX, Ubu</ram>
used amount of <ram></ram>	Plain	<integer></integer>	Returns the amount of system RAM currently used, in bytes. Lin, Sol, HPUX, AIX, Ubu

Examples

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

Service

These Inspectors provide 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.

Creation Methods

Key Phrase	Form	Description
main gather service	PlainGlobal	Returns a service object for the main gathering service, typically located on the main server.
		Note: On a Macintosh, returns <nothing>. Included for compatibility.</nothing>
		Win, Lin, Sol, HPUX, AIX, , Ubu
relay service	PlainGlobal	Returns a service object for the relay component of BES. • Note: On a Macintosh, this returns <nothing>.</nothing>
		Win, Lin, Sol, HPUX, AIX, , Ubu



Key Phrase	Form	Description
running service <string></string>	NamedGlobal	Creates the running service object for the specified name. Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
service <string></string>	NamedGlobal	Returns the service object matching the name provided, regardless of its running state. • On a Macintosh, returns a <dummy> type. Win, Lin, Sol, HPUX, AIX, , Ubu</dummy>

Key Phrase	Form	Return Type	Description
state of <service></service>	Plain	<string></string>	Returns one of Continuing, Pausing, Paused, Running, Starting, Stopping, Stopped, Unknown. Win, Lin, Sol, HPUX, AIX, Ubu
version of <service></service>	Plain	<version></version>	This Inspector takes the specified service property and retrieves its version (file version). Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Examples

- version of service "BESClient"
- Returns a version number, such as '8.0.584.0'.

Process

Processes allocate the various resources needed to execute a program. Processes have a process identifier, a virtual address space, associated code, a priority class, security settings, environment variables, min and max working set sizes, and at least one executing thread. Processes are typically started with a single primary thread which in turn can spawn additional threads.

Key Phrase	Form	Description
init process of <zone></zone>	Plain	Returns the init process of the specified Solaris Zone. An attempt to get the init process of an inactive zone will result in 'Singular expression refers to nonexistent object'. See the Solaris documentation for more information. Sol:8.0

Key Phrase	Form	Description
process	PlainGlobal	Returns all process objects currently running.
		Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
process <integer></integer>	NumberedGlobal	Returns the process object corresponding to the given integer pid.
		Lin, Sol, HPUX, AIX, Mac, Ubu
process <string></string>	NamedGlobal	Returns the process object corresponding to the name specified by <string>.</string>
		Lin, Sol, HPUX, AIX, Ubu

Key Phrase	Form	Return Type	Description
command line argument <integer> of</integer>	Numbered	<string></string>	Returns the Nth command line argument of the specified process.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			Lin:8.0, Sol:8.0, AIX:8.0, Ubu
command line argument of <pre>command line</pre>	Plain	<string></string>	Returns the command line arguments of the specified process.
			Lin:8.0, Sol:8.0, AIX:8.0, Ubu
environment of	Plain	<environment></environment>	Returns the environment of the specified process.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			Lin:8.0, Sol:8.0, Ubu
id of <pre>cess></pre>	Plain	<integer></integer>	Returns the integer ID of the specified process.
			Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
name of <pre>cprocess></pre>	Plain	<string></string>	Returns the name (as a string) of the specified process.
			Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
pid of <pre>cess></pre>	Plain	<integer></integer>	Returns the integer process ID for the specified process.
			Lin, Sol, HPUX, AIX, Mac, Ubu
process id of <pre><pre>cess></pre></pre>	Plain	<integer></integer>	Returns the integer process ID for the specified process.
			Lin, Sol, HPUX, AIX, Mac, Ubu
zone of <pre>cone of <pre>cone</pre></pre>	Plain	<zone></zone>	Returns the Solaris Zone corresponding to the specified process.
			Sol:8.0

Examples

- \blacksquare names of processes whose (pid of it < 20)
- Returns a list of all process with an ID less than 20.



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, Lin, Sol, HPUX, AIX, WM, Ubu
system ui language	PlainGlobal	Determines the default language of menus and dialogs, messages, INF files, and help files. Win, Lin, Sol, HPUX, AIX, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
<language> as string</language>	Cast	<string></string>	Returns the language of the system locale. Win, Lin, Sol, HPUX, AIX, WM, Ubu
platform id of <language></language>	Plain	<string></string>	Returns the string resulting from a call to setlocale(LC_TYPE, ""). This call examines the system environment and returns a string representing the language and character set for any text-related system function. The string is of the form "en_US.UTF-8". Lin, Sol, HPUX, AIX, Ubu
primary language of <language></language>	Plain	<pre><pre><pre><pre><pre>def</pre></pre></pre></pre></pre>	Extracts the primary language identifier from a language. Win, Lin, Sol, HPUX, AIX, WM, Ubu

Examples

- 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	Plain	Extracts the primary language identifier from a language.
<language></language>		Win, Lin, Sol, HPUX, AIX, WM, Ubu

Properties

	Return Type	Description
Cast	, i	Returns the primary language. Win, Lin, Sol, HPUX, AIX, WM, Ubu
) a	st	Туре

Examples

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

Runlevel

The runlevel Inspectors refer to a mode of operation in various Unix systems. Typically, when a computer enters runlevel zero, it halts and when it enters runlevel six, it reboots. The intermediate runlevels differ widely among operating systems.

Creation Methods

Key Phrase	Form	Description
runlevel	PlainGlobal	Returns the current runlevel of the local machine.
		Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
<runlevel> as string</runlevel>	Cast	<string></string>	Casts a runlevel object as a string.
			Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu



Key Phrase	Form	Return Type	Description
effective time of <runlevel></runlevel>	Plain	<time></time>	Returns the time at which the runlevel was set to its current value. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
value of <runlevel></runlevel>	Plain	<string></string>	Returns the current runlevel. It evaluates to a platform-dependent string indicating the current runlevel. For instance, on Linux the value '3' indicates runlevel 3 and 'S' indicates single user mode. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu

Zone

The Solaris OS allows you to set up zones, which provide a virtual view of the runtime environment that is segregated from other zones. Solaris Zones act as completely isolated virtual servers within a single operating system instance. The following Inspectors allow you to monitor the user's zone configurations.

Key Phrase	Form	Description
zone	PlainGlobal	Returns the global Solaris zones.
		Sol:8.0
zone <integer></integer>	NumberedGlobal	Returns the Nth (as specified by the integer) global Solaris zone.
		Sol:8.0
zone <string></string>	NamedGlobal	Returns the named global Solaris zone.
		Sol:8.0
zone <uuid></uuid>	Index <uuid>Global</uuid>	Returns the named global Solaris zone as specified by the UUID.
		Sol:8.0
zone of <pre>cone of <pre>cone</pre></pre>	Plain	Returns the Solaris Zone corresponding to the specified process.
		Sol:8.0

Key Phrase	Form	Return Type	Description
<zone> as string</zone>	Cast	<string></string>	Casts a Zone as a string type.
			Sol:8.0
autoboot value of <zone></zone>	Plain	<boolean></boolean>	Returns TRUE if the specified Solaris Zone is set to Autoboot.
			Sol:8.0
boot argument <integer> of <zone></zone></integer>	Numbered	<string></string>	Returns the Nth boot argument of the specified Solaris zone.
			Sol:8.0
boot argument of <zone></zone>	Plain	<string></string>	Returns a list of the boot arguments of the specified Solaris zone.
			Sol:8.0
brand of <zone></zone>	Plain	<string></string>	Returns the brand of the selected Solaris Zone as a string, such as 'native', 'cluster' or 'solaris9'.
			Sol:8.0
comment of <zone></zone>	Plain	<string></string>	Returns the comments associated with the specified Solaris Zone.
			Sol:8.0
configuration state of <zone></zone>	Plain	<string></string>	Returns the configuration state of the specified Solaris Zone as a string type.
			Sol:8.0
exclusive ip of <zone></zone>	Plain	<boolean></boolean>	Returns TRUE if the Exclusive IP flag is set for the specified Solaris Zone. This configuration implies that a given non-global zone will have exclusive access to one of the NICs on your system.
			Sol:8.0
execution state of <zone></zone>	Plain	<string></string>	Returns the Execution State of the specified Solaris Zone as a string, such as 'Active', 'Running', 'Stopped', etcetera.
			Sol:8.0
id of <zone></zone>	Plain	<integer></integer>	Returns the ID of the specified Solaris Zone as an integer.
			Sol:8.0
inherited package directory of <zone></zone>	Plain	<string></string>	Returns the inherited package directories of the specified Solaris Zone (if any exist) as strings.
			Sol:8.0



Key Phrase	Form	Return Type	Description
init process of <zone></zone>	Plain	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Returns the init process of the specified Solaris Zone. An attempt to get the init process of an inactive zone will result in 'Singular expression refers to nonexistent object'. See the Solaris documentation for more information.
			Sol:8.0
name of <zone></zone>	Plain	<string></string>	Returns the name of the specified Solaris Zone as a string.
			Sol:8.0
network interface <string> of <zone></zone></string>	Named	<zone network interface></zone 	Returns the named network interface of the specified Solaris Zone. Sol:8.0
network interface of <zone></zone>	Plain	<zone network interface></zone 	Returns a list of the network interfaces of the specified Solaris Zone. Sol:8.0
path of <zone></zone>	Plain	<string></string>	Returns the path of the given Solaris Zone as a string.
physical memory cap of <zone></zone>	Plain	<integer></integer>	Returns the physical memory cap of the specified Solaris Zone (if one exists). An attempt to get the physical memory cap of an zone when none exists will result in 'Singular expression refers to • nonexistent object'. See the Solaris documentation for more information. Sol:8.0
scheduling class of <zone></zone>	Plain	<string></string>	Returns the scheduling class of the specified Solaris Zone, a platform-provided string. See the Solaris documentation for more information.
uuid of <zone></zone>	Plain	<uuid></uuid>	Returns the UUID of the specified Solaris Zone.

Zone Network Interface

These objects allow you to inspect the network interfaces (IP layers) installed when booting a Solaris Zone.

Creation Methods

Key Phrase	Form	Description
network interface <string> of <zone></zone></string>	Named	Returns the named network interface of the specified Solaris Zone. Sol:8.0
network interface of <zone></zone>	Plain	Returns a list of the network interfaces of the specified Solaris Zone. Sol:8.0

Properties

Key Phrase	Form	Return Type	Description
<zone interface="" network=""> as string</zone>	Cast	<string></string>	Casts a Zone network interface as a string type. Sol:8.0
address of <zone network interface></zone 	Plain	<string></string>	Returns the address of the specified Solaris zone network interface as a string type. Sol:8.0
name of <zone interface="" network=""></zone>	Plain	<string></string>	Returns the name of the specified Solaris Zone network interface as a string. Sol:8.0

Uuid

UUID is a Universally Unique IDentifier code given to each storage device on your Solaris system. UUIDs are used to identify DVD drives, removable media and drive partitions. The UUID is a hexadecimal string such as c73a37c8-ef7f-40e4-b9de-8b2f81038441. UUID values may be compared to each other using the arithmetic operators (=, <, >, and more.).

Creation Methods

Key Phrase	Form	Description
maximum of <uuid></uuid>	Plain	Returns the maximum value from a list of <uuid> types. Sol:8.0</uuid>
minimum of <uuid></uuid>	Plain	Returns the minimum value from a list of <uuid> types. Sol:8.0</uuid>



Key Phrase	Form	Description
uuid <string></string>	NamedGlobal	Returns the named UUID (Universally Unique ID).
		Sol:8.0
uuid of <zone></zone>	Plain	Returns the UUID of the specified Solaris Zone.
		Sol:8.0

Key Phrase	Form	Return Type	Description
<uuid> as string</uuid>	Cast	<string></string>	Casts a UUID as a string type.
			Sol:8.0
extrema of <uuid></uuid>	Plain	<(uuid, uuid)>	Returns the minimum and maximum extreme values of the given list of UUIDs (Universally Unique Identifiers). Sol:8.0
maximum of <uuid></uuid>	Plain	<uuid></uuid>	Returns the maximum value from a list of <uuid>types. Sol:8.0</uuid>
minimum of <uuid></uuid>	Plain	<uuid></uuid>	Returns the minimum value from a list of <uuid> types. Sol:8.0</uuid>
unique value of <uuid></uuid>	Plain	<uuid multiplicity="" with=""></uuid>	Returns the unique values of a given list of <uuid>types, removing duplicates and sorting by value.</uuid>

Operators

Key phrase	Return Type	Description
<uuid> {cmp} <uuid></uuid></uuid>	<boolean></boolean>	Compares a UUID type to a string, where {cmp} is one of: <, <=, =.
		Sol:8.0

Uuid with Multiplicity

These Inspectors deal with arrays of UUIDs, allowing you to extract unique IDs and count them.

Type Derivation: This object type is derived from the <uuid> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
unique value of <uuid></uuid>	Plain	Returns the unique values of a given list of <uuid> types, removing duplicates and sorting by value.</uuid>
		Sol:8.0

Properties

Key Phrase	Form	Return Type	Description
multiplicity of <uuid multiplicity="" with=""></uuid>	Plain	<integer></integer>	Sorts the list and returns the multiplicity, or count, of each unique element in the specified list of multiple <uuid> types. Sol:8.0</uuid>

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site	PlainGlobal	Iterates through all the sites.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Description
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site of <fixlet></fixlet>	Plain	Returns the site corresponding to the specified Fixlet message. Win:8.1, Lin:8.1, Sol:8.1, HPUX:8.1, AIX:8.1, Mac:8.1, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
fixlet of <site></site>	Plain	<fixlet></fixlet>	Iterates through the Fixlet messages of the specified site.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
gather schedule authority of <site></site>	Plain	<string></string>	Returns a string corresponding to the authority of the site schedule, for example: Publisher, Custom, Manual or Disabled.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
gather schedule time interval of <site></site>	Plain	<time interval></time 	Returns the time interval between automatic gathering of site content.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
group <integer> of <site></site></integer>	Numbered	<site group></site 	Returns an object corresponding to the numbered group of the specified site.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last gather time of <site></site>	Plain	<time></time>	Returns the time of last successful gathering from the site.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <site></site>	Plain	<string></string>	The name of the site.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
relevant fixlet of <site></site>	Plain	<fixlet></fixlet>	Iterates through the Relevant Fixlet messages for the specified site.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant offer action of <site></site>	Plain	<action></action>	Returns the list of relevant actions that are offers for the specified site. This Inspector could be useful in a client UI dashboard listing the current set of relevant offers.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
setting <string> of <site></site></string>	Named	<setting></setting>	Returns the setting whose name matches the string provided from the Fixlet site settings.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
setting of <site></site>	Plain	<setting></setting>	Returns one or more settings from the site settings.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site tag of <site></site>	Plain	<string></string>	Returns the last component of the specified site's url, eg. 'actionsite', 'enteprisesecurity', etcetera.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site version list of <site></site>	Plain	<site list="" version=""></site>	Returns the last gathered site version list (manyversion) of the specified site.
			Win:7.0, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.0, Mac:7.1, WM, Ubu
subscribe time of <site></site>	Plain	<time></time>	Returns the time that the current machine began subscribing to the site.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
version of <site></site>	Plain	<integer></integer>	Returns the version number of the site content.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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"
- 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"
- 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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
member of <site group=""></site>	Plain	<boolean></boolean>	Returns TRUE if the current computer is a member of the specified group. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Site Version List

These Inspectors examine the multidimensional version numbers (ManyVersions) that are used by the Database to reconcile reconnected sites after a DSA failback event.

Creation Methods

Key Phrase	Form	Description
site version list of <site></site>	Plain	Returns the last gathered site version list (manyversion) of the specified site.
		Win:7.0, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.0, Mac:7.1, WM, Ubu

Fixlet Objects

These Inspectors return information about individual Fixlets.

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.

Creation Methods

Key Phrase	Form	Description
current analysis	PlainGlobal	This Client Inspector is used to locate the site corresponding to the current analysis in order to look at certain related files. This is helpful for SCM content that resides in Fixlet sites and can be copied to custom sites. The value of 'current analysis' will move with the copy. In the Client context, this Inspector has global scope and returns a Fixlet.
		Note: When used in a session context, this Inspector has a scope limited to the BES Fixlet.
		Win:8.1, Lin:8.1, Sol:8.1, HPUX:8.1, AIX:8.1, Mac:8.1, Ubu
fixlet of <site></site>	Plain	This Inspector iterates over all the Fixlet messages in the given site.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant fixlet of <site></site>	Plain	Iterates over all the relevant Fixlet messages in the specified site.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
header of <fixlet></fixlet>	Plain	<fixlet_header></fixlet_header>	Iterates over all the headers of the Fixlet message.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
id of <fixlet></fixlet>	Plain	<integer></integer>	Returns the numeric ID number of the specified Fixlet message.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevance of <fixlet></fixlet>	Plain	<boolean></boolean>	Returns a boolean TRUE or False, depending on the Relevance of the specified Fixlet message.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site of <fixlet></fixlet>	Plain	<site></site>	Returns the site corresponding to the specified Fixlet message.
			Win:8.1, Lin:8.1, Sol:8.1, HPUX:8.1, AIX:8.1, Mac:8.1, Ubu

Fixlet_header

Fixlet headers are name:value pairs that 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
header <string> of <fixlet></fixlet></string>	Named	Returns the named header (case insensitive) of the specified Fixlet message. Fixlet headers are name:value pairs. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
		The state of the s
header of <fixlet></fixlet>	Plain	Iterates over all the headers of the Fixlet message.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
name of <fixlet_header></fixlet_header>	Plain	<string></string>	Headers are name:value pairs, separated by a colon. This Inspector returns the name on the left hand side of the pair. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
value of <fixlet_header></fixlet_header>	Plain	<string></string>	Headers are name:value pairs, separated by a colon. This Inspector returns the value on the right hand side of the pair. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Examples

- number of relevant fixlets whose (value of header "x-fixlet-source-severity" of it as lowercase = "critical") of site "enterprise security".
- Returns the number of critical fixlets in the Enterprise Security site.

Client Objects

These Inspectors retrieve information about the application containing the relevance evaluator.

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. These Inspectors share properties of application types, such as version and size.

Type Derivation: This object type is derived from the <application> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
client	PlainGlobal	Returns the client object corresponding to the BigFix application evaluating the current relevance expression.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Return Type	Description
administrator <string> of <cli>client></cli></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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</cli></string>
administrator of <client></client>	Plain	<setting></setting>	Returns one or more settings each representing an administrator of the client.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
brand of <client></client>	Plain	<string></string>	Returns the branding ID of a client computer. BigFix is the norm, but there are other brands that use the technology, including Trend Micro.
			Win:8.1, Lin:8.1, Sol:8.1, HPUX:8.1, AIX:8.1, Mac:8.1, Ubu
evaluationcycle of <client></client>	Plain	<evaluation cycle=""></evaluation>	Returns an object corresponding to the time it takes to evaluate the content set on the specified BigFix Client.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
registration address of <client></client>	Plain	<ipv4or6 address=""></ipv4or6>	This Inspector returns the IP address (as an <ipv4or6 address=""> type) that the specified BigFix client registered with.</ipv4or6>
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
registration cidr address of <client></client>	Plain	<string></string>	This Inspector returns the cidr address from the adapter that the specified BigFix client registered with.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
registration mac address of <client></client>	Plain	<string></string>	This Inspector returns the MAC address that the specified BigFix client registered with.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
registration subnet address of <client></client>	Plain	<ipv4or6 address></ipv4or6 	This Inspector returns the subnet address (as an <ipv4or6 address=""> type) from the adapter that the specified BigFix client registered with.</ipv4or6>
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
setting <string> of <cli>client></cli></string>	Named	<setting></setting>	Returns a client setting whose name matches the string provided from the client settings.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
setting of <client></client>	Plain	<setting></setting>	Returns one or more settings from the client settings. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
upload progress of <client></client>	Plain	<string></string>	Returns a status message string indicating No Progress, Errors or a string like the following to indicate the upload progress: • <filename>: x of <filesize> bytes in <number> seconds. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu</number></filesize></filename>
version of <client></client>	Plain	<version></version>	The product version of the BES application (BESClient or QnA). • Note: On the Macintosh only, this Inspector returns a <string>. Lin, Sol, HPUX, AIX, Mac:7.1, Ubu</string>

Examples

- registration mac address of client
- Returns a MAC address such as 00-1e-c9-4d-ce-5c.
- version of client as string
- Returns a string like "4.0.3.7".

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 have a site scope. Settings of the client have a client scope. See the 'setting' commands in the action guide for more details.

Creation Methods

Key Phrase	Form	Description
administrator <string> of <cli>ent></cli></string>	Named	Creates a setting with the given name on the given <cli>client> computer. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</cli>
administrator of <client></client>	Plain	Returns one or more settings each representing an administrator of the client. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
setting <string> of <client></client></string>	Named	Returns the setting whose name matches the string provided from the client settings. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Description
setting <string> of <site></site></string>	Named	Returns the setting whose name matches the string provided from the site settings.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
setting of <client></client>	Plain	Returns one or more settings from the client settings.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
setting of <site></site>	Plain	Returns one or more settings from the site settings.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
effective date of <setting></setting>	Plain	<time></time>	Returns the date when the setting was last modified.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
enabled of <setting></setting>	Plain	<boolean></boolean>	Returns TRUE if the specified setting is enabled.
			Win:7.0, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <setting></setting>	Plain	<string></string>	Returns the name of the setting.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
value of <setting></setting>	Plain	<string></string>	Returns the value of the setting.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Examples

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

Selected Server

These Inspectors return information about the BES Server or BES Relay to which the BigFix agent reports.

Creation Methods

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
full gateway address of <selected server=""></selected>	Plain	<ipv4or6 address></ipv4or6 	During relay selection, a traceroute-like list of the hops between the client and its relay (the selected server) is recorded. That list is accessible through this Inspector. Unlike the 'gateway address' Inspector, this Inspector includes hops that don't reply as 0.0.0.0.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
gateway address <integer> of <selected server=""></selected></integer>	Numbered	<ipv4or6 address></ipv4or6 	During relay selection, a traceroute-like list of the hops between the client and its relay (the selected server) is recorded. The elements of that list is accessible through this Inspector. • Prior to version 8.0, this inspector returned an <ipv4 address=""> type.</ipv4>
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Return Type	Description
gateway address of <selected server=""></selected>	Plain	<ipv4or6 address></ipv4or6 	During relay selection, a traceroute-like list of the hops between the client and its relay (the selected server) is recorded. That list is accessible through this Inspector. However, this Inspector ignores hops that don't reply. If you need the full list, use the 'full gateway address' Inspector. • Prior to version 8.0, this inspector returned an <ipv4 address=""> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</ipv4>
ip address of <selected server=""></selected>	Plain	<ipv4or6 address></ipv4or6 	The ipv4or6 address to which reports are sent. • Prior to version 8.0, this inspector returned an <ipv4 address=""> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</ipv4>
name of <selected server=""></selected>	Plain	<string></string>	The DNS name of the server, if known. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
port number of <selected server=""></selected>	Plain	<integer></integer>	The port number to which reports are sent. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Current Relay

These Inspectors refer to the BES Server or Relay that the client last registered with.

Key Phrase	Form	Description
current relay	PlainGlobal	Returns an object corresponding to the server or relay that the client last registered with. This may be a BES Relay or the BES root server.
		Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu

Key Phrase	Form	Return Type	Description
version of <current relay=""></current>	Plain	<version></version>	Returns a version object that is the version of the server that the client last registered with. This may be a BES Relay or the BES root server. Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu

Root Server

These Inspectors refer to the root server that the Bes Client is currently connected to.

Creation Methods

Key Phrase	Form	Description
root server	PlainGlobal	Returns an object representing the root BES Server to which the client last registered.
		Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
host name of <root server=""></root>	Plain	<string></string>	The host (DNS) name of the BES root server that the BES Client last registered with. Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
id of <root server=""></root>	Plain	<integer></integer>	The DSA Server ID of the BES root server that the BES Client last registered with. Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu



Evaluation Cycle

An Evaluation cycle represents a complete run through all the content available on the BigFix Client, measured in milliseconds. These Inspectors return statistics based on the time sampled whenever the client returns to the beginning of its content set. These Inspectors require a Client context.

Creation Methods

Key Phrase	Form	Description
evaluationcycle of <client></client>	Plain	Returns an object corresponding to the time it takes to evaluate the content set on the specified BigFix Client.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
average of <evaluation cycle=""></evaluation>	Plain	<integer></integer>	Returns the average time, in milliseconds, that it takes to evaluate a given BigFix Client content set. The average is based on the last ten cycles. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
maximum of <evaluation cycle=""></evaluation>	Plain	<integer></integer>	Returns the maximum time, in milliseconds, that it takes to evaluate a given BigFix Client content set. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Examples

- average of evaluationcycle of client
- Returns the average evaluation cycle time in milliseconds.

Application Usage Summary

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

_BESClient_UsageManager_EnableAppUsageSummary and initialize it to 1. You must also configure the set of applications to monitor by creating the client setting

_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 only track summary usage 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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
application usage summary <string></string>	NamedGlobal	Returns the usage summary for the application specified in <string>. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</string>

Properties

Key Phrase	Form	Return Type	Description
first start time of <application usage<br="">summary></application>	Plain	<time></time>	Returns the start time of the specified application since the computer was configured to track it, regardless of reboots. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
instance of <application summary="" usage=""></application>	Plain	<application instance="" summary="" usage=""></application>	Returns a list of all the instances of a specified application usage summary. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
last start time of <application usage<br="">summary></application>	Plain	<time></time>	Returns the last time this specified application was started. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last time seen of <application usage<br="">summary></application>	Plain	<time></time>	Returns the last time this specified application was seen running. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <application summary="" usage=""></application>	Plain	<string></string>	Returns the names of the applications that are currently enabled for usage summaries. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Application Usage Summary Instance

These Inspectors return information about the multiple instances of specific applications.

Creation Methods

Key Phrase	Form	Description
instance of <application summary="" usage=""></application>	Plain	Returns a list of all the instances of a specified application usage summary.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
first start time of <application usage<br="">summary instance></application>	Plain	<time></time>	Returns the start time of the specified application instance since the computer was configured to track it, regardless of reboots. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
last start time of <application usage<br="">summary instance></application>	Plain	<time></time>	Returns the last time this specified application was started. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
last time seen of <application usage<br="">summary instance></application>	Plain	<time></time>	Returns the last time this specified application was seen running. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
name of <application instance="" summary="" usage=""></application>	Plain	<string></string>	Returns the name(s) of the application instance(s) currently enabled for usage summaries. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
size of <application instance="" summary="" usage=""></application>	Plain	<integer></integer>	Returns the size of the specified application instance. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
string version of <application usage<br="">summary instance></application>	Plain	<string></string>	Returns the version of the specified application instance as a string value. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
total duration of <application usage<br="">summary instance></application>	Plain	<time interval></time 	Returns the total elapsed time that the specified application instance has been running. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
total run count of <application usage<br="">summary instance></application>	Plain	<integer></integer>	Returns the number of times that the specified application instance has been run since the client was configured to track it. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
version of <application instance="" summary="" usage=""></application>	Plain	<version></version>	Returns the version of the specified application instance. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

License Objects

These Inspectors retrieve information about the licensing of particular BigFix products.

License

These Inspectors are available to inspect the properties of the deployment license.

Creation Methods

Key Phrase	Form	Description
bes license	PlainGlobal	Synonym for 'client license'.
		Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
client license	PlainGlobal	Creates the global object containing client licensing information.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Return Type	Description
allow unmentioned site of <license></license>	Plain	<boolean></boolean>	If this property is TRUE, then the deployment is allowed to use sites that aren't mentioned in the license of any BES products. If FALSE, those sites will not be usable.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
common name of cense>	Plain	<string></string>	Returns the name of the person (such as John Smith) who requested the action site license. Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
email address of <license></license>	Plain	<string></string>	Returns the email address of the person (such as John_Smith@bigcorp.com) who requested the action site license.
			Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
encryption certificate of cense>	Plain	<x509 certificate=""></x509>	Provides the encryption certificate that is currently active and which will be used by clients to encrypt reports.
			Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu
evaluation of <license></license>	Plain	<boolean></boolean>	Returns TRUE if client is running an evaluation license.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
expiration date of	Plain	<time></time>	Returns date when license will expire.
clicense>			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
expiration state of clicense>	Plain	<string></string>	Returns a string, one of "Unrestricted", "Grace" or "Restricted".
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
fips mode of <license></license>	Plain	<boolean></boolean>	Returns TRUE if the BES action masthead specifies that applications (the client, console, or web reports, depending on the context) in the deployment should operate in FIPS 140-2 compliant mode.
			Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu
gather url of <license></license>	Plain	<string></string>	Returns the gather URL for the deployment's main Action site as specified in the deployment masthead.
			Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
maximum seat count of cense>	Plain	<integer></integer>	Returns maximum seat count allowed by the license.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
organization of <license></license>	Plain	<string></string>	Returns the organization of the person (such as Bigcorp, Inc.) who requested the action site license.
			Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
product of <license></license>	Plain	 product>	Returns BES product objects obtained from the product fields of the specified license.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
registrar number of 	Plain	<integer></integer>	A unique number assigned to the issuer of the Action Site certificate.
			Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
seat count state of <pre></pre>	Plain	<string></string>	Returns one of "Unrestricted", "Grace" or "Restricted".
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
seat of <license></license>	Plain	<integer></integer>	The license number assigned to the client.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site number of <license></license>	Plain	<integer></integer>	A unique number assigned to the Action Site certificate.
			Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
start date of <license></license>	Plain	<time></time>	The starting date specified for the BigFix license.
			Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
type of <license></license>	Plain	<string></string>	Returns the string that was assigned to the license when it was authorized by BigFix.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

- maximum seat count of bes license
- Returns the current number of BigFix Clients allowed by this license.



BES Product

A BigFix license can include more than one product. Each product has an expiration date and a maximum seat count for any type of computer, or by non-windows server, windows server, or workstation. Each product also has a name and a list of site urls. For example, a patch management product might include site urls pointing to the individual patch sites.

Creation Methods

Key Phrase	Form	Description
product of <license></license>		Returns BES product objects obtained from the product fields of the specified license.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
computer count of <bes product=""></bes>	Plain	<integer></integer>	Returns the number of computers allowed under the license terms of the specified BES product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
expiration date of <bes product=""></bes>	Plain	<date></date>	Returns the expiration date for the specified bes product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
name of <bes product=""></bes>	Plain	<string></string>	Returns the name of the specified licensed BES product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
non windows server count of <bes product=""></bes>	Plain	<integer></integer>	Returns the number of non-Windows servers included in the license for the specified BES Product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
site url of <bes product=""></bes>	Plain	<string></string>	Returns a list of the URLs associated with the specified BES product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
windows server count of 	Plain	<integer></integer>	Returns the number of Windows Servers licensed for the specified product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
workstation count of 	Plain	<integer></integer>	Returns the number of workstations licensed for the specified product.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

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, Lin, Sol, HPUX, AIX, Mac, Ubu
environment of <pre><pre>continue</pre></pre>	Plain	Returns the environment of the specified process.
		Lin:8.0, Sol:8.0, Ubu

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, Lin, Sol, HPUX, AIX, Mac, Ubu
variable of <environment></environment>	Plain	<environment variable=""></environment>	Iterates through all the environment variables defined. Win, Lin, Sol, HPUX, AIX, Mac, Ubu

Examples

- exists environment
- TRUE if the computer has an environment object.
- value of variable "PATH" of environment contains "/sbin"
- TRUE if there is an environment variable named "PATH" and its value contains "/sbin".
- value of variable "PATH" of environment contains "/sbin"
- TRUE if there is an environment variable named "PATH" and its value contains "/sbin".



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, Lin, Sol, HPUX, AIX, Mac, Ubu
variable of <environment></environment>	Plain	Iterates through all the environment variables defined. Win, Lin, Sol, HPUX, AIX, Mac, Ubu

Properties

Key Phrase	Form	Return Type	Description
<environment variable=""> as string</environment>	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, Lin, Sol, HPUX, AIX, Mac, Ubu
name of <environment variable=""></environment>	Plain	<string></string>	Returns the name of the variable. Win, Lin, Sol, HPUX, AIX, Mac, Ubu
value of <environment variable=""></environment>	Plain	<string></string>	Returns the value of the variable. Win, Lin, Sol, HPUX, AIX, Mac, Ubu

Examples

- 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.

Client cryptography

These Inspectors expose cryptographic properties exclusive to the client.

Creation Methods

Key Phrase	Form	Description
client cryptography	PlainGlobal	This Inspector is similar to the core cryptography object except that it returns properties exclusive to the client (whereas <cryptography> is also available in the Console/Web Reports contexts). Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu</cryptography>

Properties

Key Phrase	Form	Return Type	Description
desired encrypt report of <cli>client_cryptography></cli>	Plain	<boolean></boolean>	Returns TRUE if the client is configured to attempt to encrypt reports. Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu
encrypt report failure message of <client_cryptography></client_cryptography>	Plain	<string></string>	If the client is not successfully encrypting reports, this Inspector returns the failure message. Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu
encrypt report of <client_cryptography></client_cryptography>	Plain	<boolean></boolean>	Returns TRUE if the client is successfully encrypting reports. Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu

X509 Certificate

X.509 is a public key infrastructure standard, specifying formats for public key certificates and revocations. These Inspectors interpret the certificate from a file in the PEM format. They can be used to analyze encryption credentials on decrypting relays or root servers.

Creation Methods

Key Phrase	Form	Description
encryption certificate of 	Plain	Provides the encryption certificate that is currently active and which will be used by clients to encrypt reports.
		Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu



User Objects

These Inspectors return information about local and current user accounts, including names, logins, passwords and more.

User

These Inspectors allow you to list properties of all users, whether they are logged in or not.

Type Derivation: This object type is derived from the <security account> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
current user	PlainGlobal	Creates an object corresponding to the current users, whether they are logged in or not. Lin, Sol, HPUX, AIX, Ubu
	DisinGlahal	
user	PlainGlobal	Creates objects for all users, logged in or not.
		Win:8.1, Lin, Sol, HPUX, AIX, Mac:7.1, Ubu
user <string></string>	NamedGlobal	Returns an object representing the user (logged in or not) specified by <string>.</string>
		Win:8.1, Lin, Sol, HPUX, AIX, Mac:7.1, Ubu

Properties

Key Phrase	Form	Return Type	Description
name of <user></user>	Plain	<string></string>	Returns the name of all the specified user, whether logged in or not.
			Win:8.1, Lin, Sol, HPUX, AIX, Mac:7.1, Ubu
tty of <user></user>	Plain	<string></string>	Returns the tty of the user.
			Lin, Sol, HPUX, AIX, Ubu

Examples

- names of users
- Returns a list of all the users.

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
action <integer></integer>	NumberedGlobal	Creates an action object matching the <integer> id.</integer>
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
active action	PlainGlobal	Creates an action object corresponding to the currently executing action.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant offer action of <site></site>	Plain	Returns the list of relevant actions that are offers for the specified site. This Inspector could be useful in a client UI dashboard listing the current set of relevant offers.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Properties

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



Key Phrase	Form	Return Type	Description
exit code of <action></action>	Plain	<integer></integer>	Returns an integer corresponding to the exit code of the specified action. This value will not exist if the action has not yet produced an exit code.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
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, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
id of <action></action>	Plain	<integer></integer>	Returns the numeric ID associated with the specified Action.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last change time of <action></action>	Plain	<time></time>	Returns the time when the action state last changed.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
offer accepted of <action></action>	Plain	<boolean></boolean>	Returns TRUE when users indicated they want to run the action by accepting the offer presented by the BES Client UI. When an offer has been accepted, the Client evaluates its constraints and runs as soon as conditions allow. Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
offer of <action></action>	Plain	<boolean></boolean>	Returns TRUE when the Action is presented as an offer (as indicated by the header "x-offer: 1").
			Win:7.0, Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
origin fixlet id of <action></action>	Plain	<integer></integer>	Returns the Fixlet id that contained the action.
origin fixiot id or sactions	, idiii	, annogor	Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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. Among the inspectable parameters is the 'action issue date' that is added to each Action by the BigFix Console at issue time. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</string>
pending login of <action></action>	Plain	<boolean></boolean>	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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
pending of <action></action>	Plain	<boolean></boolean>	Returns TRUE if action is available to run.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pending restart of <action></action>	Plain	<boolean></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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pending time of <action></action>	Plain	<time></time>	Returns the time the action became pending.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

- parameter "action issue date" of action
- This Inspector returns the date the action was issued, a parameter added to each action by the BigFix Console.



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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
adapter of <network></network>	Plain	<network adapter=""></network>	Returns the one or more network adapter objects of the network.
			Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
any adapter of <network></network>	Plain	<network adapter=""></network>	This Inspector returns the same as 'adapter of <network>', but it includes loopback and tunnels.</network>
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
find adapter <string> of <network></network></string>	Named	<network adapter=""></network>	This Inspector lets you find a network adapter from the "Friendly Name".
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
interface <integer> of</integer>	Numbered	" 11101110111	Returns the Nth interface of the network.
<network></network>		interface>	Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
interface of <network></network>	Plain	<network< td=""><td>Returns all the interfaces of the network.</td></network<>	Returns all the interfaces of the network.
		interface>	Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ip interface <integer> of</integer>	Numbered	<network ip<="" td=""><td>Returns the Nth ip interface of the network.</td></network>	Returns the Nth ip interface of the network.
<network></network>		interface>	Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ip interface of <network></network>	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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ipv4 interface of <network></network>	Plain	<network adapter interface></network 	Returns an IPv4 network adapter interface from the specified network.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
ipv4or6 interface of <network></network>	Plain	<network adapter interface></network 	Returns all the ipv4or6 network adapter interfaces from the specified network. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv6 interface of <network></network>	Plain	<network adapter interface></network 	Returns all the ipv6 interfaces of the specified network. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

- address of find adapter "Local Area Connection" of network
- Returns an IP address corresponding to the Local Area Connection of the network.

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
interface of <network></network>	Plain	Creates an object with all the interfaces of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Examples

- names of interfaces of network
- Returns a list of the network interface names, for example, 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.

Type Derivation: This object type is derived from the <network interface> type and therefore shares the same properties as that type.

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
alias of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Returns TRUE if the network ip interface has an alias defined for it (a virtual device, rather than a physical device). Lin, Sol, HPUX, AIX, Mac:8.0, Ubu
broadcast address of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	Returns the broadcast address of the specified interface as an IPv4 type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
broadcast support of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that broadcast messages are supported by the ip interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
cidr address of <network interface="" ip=""></network>	Plain	<string></string>	Returns the Classless Inter-Domain Routing address for the specified network ip interface as a string type. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
cidr string of <network interface="" ip=""></network>	Plain	<string></string>	Returns the Classless Inter-Domain Routing value for the specified network ip interface as a string type.
			Win:7.1, Lin:7.1, Sol:7.1, HPUX:7.1, AIX:7.1, Mac:7.1, WM, Ubu
loopback of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that the particular network ip interface is a loopback interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
mac address of <network interface="" ip=""></network>	Plain	<string></string>	Returns the MAC address (AKA hardware address) of the network ip interface object. The mac address is formatted as a string of lower case hex digits separated by '-'.
	5		Lin, Sol, HPUX, AIX, Mac:8.0, Ubu
multicast support of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Indicates that multicast messages are supported by the ip interface.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <network interface="" ip=""></network>	Plain	<string></string>	Returns the name of the network ip interface object. Typical names are lan0, lo0. Virtual interfaces are usually of the form lan0:2.
			Lin, Sol, HPUX, AIX, Mac:8.0, Ubu
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, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet address of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet address (IPv4) to which the specified interface belongs.
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet mask of <network interface="" ip=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet mask (IPv4) of the specified network ip interface.
			As of version 8.0, this Inspector type is derived from an <ipv4or6 address=""> type.</ipv4or6>
			Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
up of <network interface="" ip=""></network>	Plain	<boolean></boolean>	Returns TRUE if the specified network IP interface is currently up.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

- names of ip interfaces of network
- Returns a list of the names of the network IP interfaces, for example, lo0, en0.



- addresses of ip interfaces of network
- Returns a list of the IP addresses of the network IP interfaces, for example, 127.0.0.1, 192.168.1.100, etcetera.
- 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.
- mac address whose (it = "00-61-b1-d1-7d-29") of ip interfaces of network
- Returns the mac address of the specified network ip interface object.

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 adapter="" interface=""></network>	Plain	Returns the adapters associated with the specified network adapter interface.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
adapter of <network></network>	Plain	Returns one or more adapters of the network.
		Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
any adapter of <network></network>	Plain	This Inspector returns the same as 'adapter of <network>', but it includes loopback and tunnels.</network>
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
find adapter <string> of <network></network></string>	Named	This Inspector lets you find a network adapter from the "Friendly Name".
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
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, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
cidr address of <network adapter=""></network>	Plain	<string></string>	Returns the CIDR address of the specified network adapter as a string type, for example, 192.168.0.0/16 (IPv4) or 2001:db8::/32 (IPv6). Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
cidr string of <network adapter=""></network>	Plain	<string></string>	Returns the Classless Inter-Domain Routing value for the specified network adapter as a string value.
			Win:7.1, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
friendly name of <network adapter=""></network>	Plain	<string></string>	Returns a user-friendly name for the adapter, for example "Local Area Connection 1".
			Win:7.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, WM, Ubu
ipv4 interface of <network adapter=""></network>	Plain	<network adapter="" interface=""></network>	Returns the IPv4 interface of the specified network adapter as a <network adapter="" interface="" ip=""> type.</network>
		interrace>	Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv4or6 interface of <network adapter=""></network>	Plain	<network adapter interface></network 	Returns the ipv4or network adapter interface from the specified network adapter.
		interrace>	Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv6 interface of <network adapter=""></network>	Plain	<network adapter<="" td=""><td>Returns the IPv6 interfaces of the specified network adapter as a network adapter interface type.</td></network>	Returns the IPv6 interfaces of the specified network adapter as a network adapter interface type.
		interface>	Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
loopback of <network adapter=""></network>	Plain	<boolean></boolean>	Returns TRUE if the specified network adapter is a loopback interface.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, Ubu
mac address of	Plain	<string></string>	Returns the mac address of the network adapter.
<network adapter=""></network>			Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
multicast support of <network adapter=""></network>	Plain	<boolean></boolean>	Returns TRUE if multicast messages are supported by the specified network adapter.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, Ubu
name of <network< td=""><td>Plain</td><td><string></string></td><td>Returns the name of the network adapter.</td></network<>	Plain	<string></string>	Returns the name of the network adapter.
adapter>			Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
subnet address of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet address (IPv4) of the specified network adapter.
			Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
subnet mask of <network adapter=""></network>	Plain	<ipv4 address></ipv4 	Returns the subnet mask (IPv4) of the specified network adapter.
			Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
up of <network adapter=""></network>	Plain	<boolean></boolean>	Returns TRUE if the specified network adapter is currently working. Interfaces like wifi may be turned it off to save power, but this Inspector will still tell you if it is active.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, Ubu



Network Adapter Interface

A network adapter interfaces a computer to a network. These Inspectors expose the adapter so that you can determine its properties, such as its address, subnet mask, mac address and whether or not it supports broadcast, multicast or point-to-point.

Creation Methods

Key Phrase	Form	Description
ipv4 interface of <network adapter=""></network>	Plain	Returns the IPv4 interface of the specified network adapter as a <network adapter="" interface="" ip=""> type.</network>
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv4 interface of <network></network>	Plain	Returns an IPv4 network adapter interface from the specified network.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv4or6 interface of <network adapter=""></network>	Plain	Returns the ipv4or network adapter interface from the specified network adapter.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv4or6 interface of <network></network>	Plain	Returns all the ipv4or6 network adapter interfaces from the specified network.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv6 interface of <network adapter=""></network>	Plain	Returns the IPv6 interfaces of the specified network adapter as a network adapter interface type.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv6 interface of <network></network>	Plain	Returns all the ipv6 interfaces of the specified network.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
adapter of <network adapter="" interface=""></network>	Plain	<network adapter=""></network>	Returns the adapters associated with the specified network adapter interface. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
address of <network adapter="" interface=""></network>	Plain	<ipv4or6 address=""></ipv4or6>	Returns the IP address of the specified network adapter interface as an ipv4or6 address type. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
broadcast address of <network adapter<br="">interface></network>	Plain	<ipv4or6 address></ipv4or6 	Creates an object with the broadcast address (ipv4or6) of the specified network adapter interface. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
broadcast support of <network adapter<br="">interface></network>	Plain	<boolean></boolean>	Returns TRUE if the given network adapter interface has broadcast support.
interface>			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
cidr address of <network adapter="" interface=""></network>	Plain	<string></string>	Returns the CIDR address of the specified interface as a string type, for example, 192.168.0.0/16 (IPv4) or 2001:db8::/32 (IPv6).
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
cidr string of <network adapter="" interface=""></network>	Plain	<string></string>	A cidr string (see CIDR_notation at Wikipedia) is a string representation of a cidr address. It looks like an ip address followed by a slash and then the number of leading non-zero bits of the routing prefix. For example, 192.168.0.0/16 for IPv4, and 2001:db8::/32 for IPv6.
	D		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
loopback of <network adapter="" interface=""></network>	Plain	<boolean></boolean>	Returns TRUE if the specified interface supports loopbacks.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
mac address of <network adapter<="" td=""><td>Plain</td><td><string></string></td><td>Returns the MAC address of the specified network adapter interface as a string type.</td></network>	Plain	<string></string>	Returns the MAC address of the specified network adapter interface as a string type.
interface>			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
multicast support of <network adapter<="" td=""><td>Plain</td><td><boolean></boolean></td><td>Returns TRUE if the specified interface supports multicasting.</td></network>	Plain	<boolean></boolean>	Returns TRUE if the specified interface supports multicasting.
interface>			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
point to point of <network adapter<br="">interface></network>	Plain	<boolean></boolean>	A network adapter interface can be a point-to-point interface, such as you might use for a VPN connection or a SLIP connection. This Inspector returns TRUE if the specified network adapter interface is configured to run point-to-point.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
subnet address of <network adapter<="" td=""><td>Plain</td><td><ipv4or6 address=""></ipv4or6></td><td>Returns the subnet address of the specified interface as an ipv4or6 address type.</td></network>	Plain	<ipv4or6 address=""></ipv4or6>	Returns the subnet address of the specified interface as an ipv4or6 address type.
interface>			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
subnet mask of <network adapter<br="">interface></network>	Plain	<ipv4or6 address=""></ipv4or6>	Returns the subnet mask of the specified interface as an ipv4or6 address type.
IIIGIIQUGA			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
up of <network adapter="" interface=""></network>	Plain	<boolean></boolean>	Returns TRUE if the specified interface is currently up and working.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu



Ipv4 Address

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

• NOTE: Prior to version 8.0 of BigFix, this was not a derived type.

Type Derivation: This object type is derived from the <ipv4or6 address> type and therefore shares the same properties as that type.

Creation Methods

Key Phrase	Form	Description
address of <network adapter=""></network>	Plain	Returns the ip address of the network adapter.
		Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
address of <network ip<="" td=""><td>Plain</td><td>Creates an object with the ip address of the interface.</td></network>	Plain	Creates an object with the ip address of the interface.
interface>		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
broadcast address of	Plain	Returns the broadcast address of the specified interface.
<network interface="" ip=""></network>		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet address of <network adapter=""></network>	Plain	Returns the subnet address (IPv4) of the specified network adapter.
		Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
subnet address of <network interface="" ip=""></network>	Plain	Creates an object with the subnet address of the network interface.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet mask of <network< td=""><td>Plain</td><td>Returns the subnet mask of the network adapter.</td></network<>	Plain	Returns the subnet mask of the network adapter.
adapter>		Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
subnet mask of <network interface="" ip=""></network>	Plain	Returns the subnet mask (IPv4) of the specified network ip interface.
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Operators

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

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

- \blacksquare 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.

Ipv4or6 Address

These Inspectors allow you to represent IPv4 and IPv6 addresses as a common type. From these inclusive Inspectors, you can derive the corresponding v4 and v6 IP addresses.

Creation Methods

Key Phrase	Form	Description
address of <network adapter="" interface=""></network>	Plain	Returns the ipv4or6 address of the specified network adapter interface.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
broadcast address of <network adapter="" interface=""></network>	Plain	Creates an object with the broadcast address (ipv4or6) of the specified network adapter interface.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
full gateway address of <selected server=""></selected>	Plain	During relay selection, a traceroute-like list of the hops between the client and its relay (the selected server) is recorded. That list is accessible through this Inspector. Unlike the 'gateway address' Inspector, this Inspector includes hops that don't reply as 0.0.0.0. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
gateway address <integer> of <selected server=""></selected></integer>	Numbered	During relay selection, a traceroute-like list of the hops between the client and its relay (the selected server) is recorded. The elements of that list is accessible through this Inspector.
		Prior to version 8.0, this inspector returned an <ipv4 address=""> type.</ipv4>
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu



Key Phrase	Form	Description	
gateway address of <selected server=""></selected>	Plain During relay selection, a traceroute-like list of the hope between the client and its relay (the selected server) is recorded. That list is accessible through this Inspector However, this Inspector ignores hops that don't reply, you need the full list, use the 'full gateway address' Inspector. • Prior to version 8.0, this inspector returned an <ipv4 address=""> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</ipv4>		
ip address of <selected server=""></selected>	Plain	The ipv4or6 address to which reports are sent. • Prior to version 8.0, this inspector created an <ipv4 address=""> type.</ipv4>	
		Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu	
registration address of <pre><cli><cli></cli></cli></pre>	Plain	This Inspector returns the IP address (as an <ipv4or6 address=""> type) that the specified BigFix client registered with.</ipv4or6>	
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu	
registration subnet address of <cli>client></cli>	Plain	This Inspector returns the subnet address (as an <ipv4or6 address=""> type) from the adapter that the specified BigFix client registered with.</ipv4or6>	
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu	
subnet address of <network adapter="" interface=""></network>	Plain	Returns the subnet address of the specified interface as an ipv4or6 address type.	
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu	
subnet mask of <network adapter="" interface=""></network>	Plain	Returns the subnet mask of the specified interface as an ipv4or6 address type.	
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu	

Installed System Software

These Inspectors help you manage system objects and software packages.

Pkgdb

This is a database object created by BigFix to keep track of all the Solaris packages (pkginfos) that have been installed on this computer. The pkginfo object, in turn, contains Solaris patches, each with an ID and a revision number. The database essentially contains a comprehensive list of patches, allowing you to directly access a patch without going through pkginfo. The syntax is "patch of pkgdb", which can greatly simplify your relevance expressions.

Creation Methods

Key Phrase	Form	Description
pkgdb	PlainGlobal	Creates a top-level object containing a list of all the installed packages, in the form of pkginfos.
		Sol

Properties

Key Phrase	Form	Return Type	Description
patch <string> of <pkgdb></pkgdb></string>	Named	<patch></patch>	Returns the requested patch from the package database. Typically used for existence tests.
patch id <string> of <pkgdb></pkgdb></string>	Named	<string></string>	Returns the specified patch id string from the package database. Typically used for existence tests.
patch id of <pkgdb></pkgdb>	Plain	<string></string>	Returns a space-delimited list of patch ids from the specified package database.
patch of <pkgdb></pkgdb>	Plain	<patch></patch>	Returns all the patches listed in the given pkgdb (package database).
pkginfo <string> of <pkgdb></pkgdb></string>	Named	<pkginfo></pkginfo>	Returns the specified pkginfo from the package database. Typically used for existence tests.
pkginfo of <pkgdb></pkgdb>	Plain	<pkginfo></pkginfo>	Returns all the packages (as pkginfos) in the given package database.



- exists patch "123456" of pkgdb
- Returns TRUE if any revision of the patch with this ID exists in the package database.
- exists patch "123456-12" of pkgdb
- Returns TRUE if this exact patch ID (including the revision) exists in the package database.
- exists patch id "123456-01 345678-23" of pkgdb
- Returns TRUE if these patch ids exist in the package database.
- exists patch id whose (it contains "123456-01") of pkgdb
- Returns TRUE if the specified patch id exists in the package database.
- patch id of pkgdb contains "123456"
- Returns TRUE if the designated patch ID exists in the package database.
- exists pkginfo "SUNWrdm" of pkgdb
- Returns TRUE if the specified pkginfo exists in the package database.

Pkginfo

Pkginfo is an object containing information about Solaris packages, which are used to deliver patches. Pkginfo contains information about the category, the intended architecture, vendors, patch IDs and revision numbers. Other package information can be inspected using the "param" property which lets you access other parameters by name.

Creation Methods

Key Phrase	Form	Description
pkginfo <string> of <pkgdb></pkgdb></string>	Named	Returns the specified pkginfo from the package database. Typically used for existence tests.
pkginfo of <pkgdb></pkgdb>	Plain	Creates an object containing all the packages (as pkginfos) in the given package database.

Key Phrase	Form	Return Type	Description
<pkginfo> as string</pkginfo>	Cast	<string></string>	Converts a pkginfo object into a string.
			Sol

Key Phrase	Form	Return Type	Description
arch of <pkginfo></pkginfo>	Plain	<string></string>	Returns a string representing the architecture of the package specified by the pkginfo object.
category of <pkginfo></pkginfo>	Plain	<string></string>	Returns a string representing the category of the package specified by pkginfo.
name of <pkginfo></pkginfo>	Plain	<string></string>	Returns the name of the package from the specified pkginfo object.
param <string> of <pkginfo></pkginfo></string>	Named	<string></string>	Returns the value of the named parameter (specified by <string>) from the pkginfo object.</string>
patch <string> of <pkginfo></pkginfo></string>	Named	<patch></patch>	Returns a named patch from the specified pkginfo.
patch id <string> of <pkginfo></pkginfo></string>	Named	<string></string>	Returns the specified patch id string from the specified pkginfo of the package database. Typically used for existence tests.
patch id of <pkginfo></pkginfo>	Plain	<string></string>	Returns a space delimited list of patch ids, for example: "123456-01 123456-02 200213-23 501234-02". This is the same list available from the PATCHLIST parameter of the pkginfo.
patch of <pkginfo></pkginfo>	Plain	<patch></patch>	Returns the patch object referenced in the pkginfo object.
pkginst of <pkginfo></pkginfo>	Plain	<string></string>	Returns a short string used as an abbreviation for the package name given by the pkginfo object. Typically contains a vendor symbol and an ID, like "CSCOh007".
vendor of <pkginfo></pkginfo>	Plain	<string></string>	Returns a string containing the name of the package vendor. This is the same as the VENDOR parameter of the pkginfo.
version of <pkginfo></pkginfo>	Plain	<string></string>	Returns a version number for the specified pkginfo object. Not to be confused with revision numbers of patches. This is the same as the VERSION parameter of the pkginfo.



- param "INSTDATE" of pkginfo "SPROhtws" of pkgdb
- Returns the install date as a string like "Jul 24 2003 09:45".
- exists patch id "123456-01" of pkginfo "SUNWrdm" of pkgdb
- Returns TRUE if the designated patch ID exists in the specified pkginfo of the package database.
- version of pkginfo "SPROhtws" of pkgdb
- Returns a version string like "8.0,REV=2003.04.02".

Patch

An object that exposes the properties of a Solaris patch, each of which has a base ID followed by a revision number, such as 123456-12. Here the base is 123456, which identifies the patch, and 12, which represents the revision of this particular patch.

Creation Methods

Key Phrase	Form	Description
patch <string> of <pkgdb></pkgdb></string>	Named	Returns the patch specified by <string> from the given Solaris package database.</string>
patch <string> of <pkginfo></pkginfo></string>	Named	Returns the requested patch object from the specified pkginfo. Typically used for existence tests.
patch of <pkgdb></pkgdb>	Plain Creates objects for all the patches in the specified package database. Sol	
patch of <pkginfo></pkginfo>	Plain	Returns the patch(es) named in the specified pkginfo object.

Key Phrase	Form	Return Type	Description
base of <patch></patch>	Plain	<string></string>	Returns the base number of the given patch, which is a unique identifier for the file, as a string.
greatest revision of <patch></patch>	Plain	<string></string>	Returns the highest revision of the patch.

Key Phrase	Form	Return Type	Description
least revision of <patch></patch>	Plain	<string></string>	Returns the lowest revision of the patch.
revision <string> of <patch></patch></string>	Named	<string></string>	Returns the specified revision string from the given patch. Typically used for existence tests.
revision of <patch></patch>	Plain	<string></string>	Returns an additional revision number which modifies the base of the patch.

- exists patch "123456" of pkginfo "SUNWrdm" of pkgdb
- Returns TRUE if this patch exists in the specified pkginfo of the package database.
- greatest revision of patch "112233" of pkgdb = "12"
- Returns TRUE if the highest revision of the specified patch is equal to 12.
- least revision of patch "112233" of pkgdb = "05"
- Returns TRUE if the lowest revision of the specified patch is equal to 05.
- exists revision "02" of patch "123456" of pkginfo "SUNWrdm" of pkgdb
- Returns TRUE if the specified revision of the given patch in the given pkginfo exists in the package database.
- exists patch whose (revision of it < "3") of pkgdb
- Returns TRUE if there is a patch in the package database with a revision number less than 3.



Power Inspectors

These Inspectors return information about the energy usage patterns of BigFix Clients and their attached monitors.

Power Level

These Inspectors provide exposure to the underlying batter and power information used by low-power modes. On Windows, this uses the GetSystemPowerStatus system call, and on OSX, it uses the IOPSCopyPowerSourcesList functionality.

Creation Methods

Key Phrase	Form	Description
power level	PlainGlobal	Returns a power level representing the underlying state of the battery or charging system.
		Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
<power level=""> as string</power>	Cast	<string></string>	Converts a power level into a human-readable string.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
full of <power level=""></power>	Plain	<boolean></boolean>	Returns TRUE if the battery is fully charged.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
low of <power level=""></power>	Plain	<boolean></boolean>	Returns TRUE if the battery is at a low charge level.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
normal of <power level=""></power>	Plain	<boolean></boolean>	Returns TRUE if the battery is at a normal charge level.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
plugged of <power level=""></power>	Plain	<boolean></boolean>	Returns TRUE if the computer is currently plugged in to AC power.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ups of <power level=""></power>	Plain	<boolean></boolean>	Returns TRUE if the computer is currently being powered by a UPS.
			Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu

- power level
- Returns the current power level, which might be something like "full battery power plugged in".
- full of power level
- ▶ Returns TRUE if the battery is currently topped off.
- plugged of power level
- Returns TRUE if the computer is currently plugged in.



Key Phrases (Inspectors)

This section of the guide provides an alphabetical list of the Inspector keywords. It details the *context* object type (From an object), and the *resulting* object type (Creates an object). This list includes all Inspectors that are relevant to the context of the current guide, including the core and regex Inspectors. You can retrieve any Inspector defined in this guide by clicking on its link in the right column.

Key Phrase	Plural	Creates a	From a	Form	Ref
abbr <string> of <html></html></string>	abbrs	<html></html>	<html></html>	Named	core
abbr <string> of <string></string></string>	abbrs	<html></html>	<string></string>	Named	core
abbr of <html></html>	abbrs	<html></html>	<html></html>	Plain	core
abbr of <string></string>	abbrs	<html></html>	<string></string>	Plain	core
absolute value of <hertz></hertz>	absolute values	<hertz></hertz>	<hertz></hertz>	Plain	core
absolute value of <integer></integer>	absolute values	<integer></integer>	<integer></integer>	Plain	core
absolute value of <time interval=""></time>	absolute values	<time interval=""></time>	<time interval=""></time>	Plain	core
accessed time of <filesystem object=""></filesystem>	accessed times	<time></time>	<filesystem object=""></filesystem>	Plain	sol
accessed time of <symlink></symlink>	accessed times	<time></time>	<symlink></symlink>	Plain	<u>sol</u>
acronym <string> of <html></html></string>	acronyms	<html></html>	<html></html>	Named	core
acronym <string> of <string></string></string>	acronyms	<html></html>	<string></string>	Named	core
acronym of <html></html>	acronyms	<html></html>	<html></html>	Plain	core
acronym of <string></string>	acronyms	<html></html>	<string></string>	Plain	core
action	actions	<action></action>	<world></world>	PlainGlobal	<u>sol</u>
action <integer></integer>	actions	<action></action>	<world></world>	NumberedGlobal	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
action lock state	action lock states	<action lock<br="">state></action>	<world></world>	PlainGlobal	sol
active action	active actions	<action></action>	<world></world>	PlainGlobal	sol
active of <action></action>	actives	<boolean></boolean>	<action></action>	Plain	sol
active start time of <action></action>	active start times	<time></time>	<action></action>	Plain	sol
adapter of <network adapter="" interface=""></network>	adapters	<network adapter=""></network>	<network adapter="" interface=""></network>	Plain	sol
adapter of <network></network>	adapters	<network adapter=""></network>	<network></network>	Plain	sol
address <string> of <html></html></string>	addresss	<html></html>	<html></html>	Named	core
address <string> of <string></string></string>	addresss	<html></html>	<string></string>	Named	core
address of <html></html>	addresss	<html></html>	<html></html>	Plain	core
address of <network adapter="" interface=""></network>	addresses	<ipv4or6 address=""></ipv4or6>	<network adapter="" interface=""></network>	Plain	sol
address of <network adapter=""></network>	addresses	<ipv4 address=""></ipv4>	<network adapter=""></network>	Plain	sol
address of <network interface="" ip=""></network>	addresses	<ipv4 address=""></ipv4>	<network interface="" ip=""></network>	Plain	sol
address of <string></string>	addresss	<html></html>	<string></string>	Plain	core
address of <zone interface="" network=""></zone>	addresses	<string></string>	<zone interface="" network=""></zone>	Plain	sol
administrator <string> of <client></client></string>	administrators	<setting></setting>	<cli>ent></cli>	Named	sol
administrator of <client></client>	administrators	<setting></setting>	<cli>ent></cli>	Plain	sol
alias of <network interface="" ip=""></network>	aliases	<boolean></boolean>	<network interface="" ip=""></network>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
allow unmentioned site of clicense>	allow unmentioned sites	<boolean></boolean>		Plain	sol
ancestor of <filesystem object=""></filesystem>	ancestors	<folder></folder>	<filesystem object=""></filesystem>	Plain	<u>sol</u>
ancestor of <symlink></symlink>	ancestors	<folder></folder>	<symlink></symlink>	Plain	<u>sol</u>
anchor <string> of <html></html></string>	anchors	<html></html>	<html></html>	Named	core
anchor <string> of <string></string></string>	anchors	<html></html>	<string></string>	Named	core
anchor of <html></html>	anchors	<html></html>	<html></html>	Plain	core
anchor of <string></string>	anchors	<html></html>	<string></string>	Plain	core
any adapter of <network></network>	any adapters	<network adapter></network 	<network></network>	Plain	sol
any ip version	any ip versions	<ip version=""></ip>	<world></world>	PlainGlobal	core
apparent registration server time	apparent registration server times	<time></time>	<world></world>	PlainGlobal	<u>sol</u>
application <string></string>	applications	<application></application>	<world></world>	NamedGlobal	<u>sol</u>
application <string> of <folder></folder></string>	applications	<application></application>	<folder></folder>	Named	sol
application usage summary	application usage summaries	<application summary="" usage=""></application>	<world></world>	PlainGlobal	sol
application usage summary <string></string>	application usage summaries	<application summary="" usage=""></application>	<world></world>	NamedGlobal	sol
april	aprils	<month></month>	<world></world>	PlainGlobal	core
april <integer></integer>	aprils	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
april <integer> of <integer></integer></integer>	aprils	<date></date>	<integer></integer>	Numbered	core

Key Phrase	Plural	Creates a	From a	Form	Ref
april of <integer></integer>	aprils	<month and="" year=""></month>	<integer></integer>	Plain	core
arch of <pkginfo></pkginfo>	archs	<string></string>	<pkginfo></pkginfo>	Plain	sol
architecture of <pre><operating system=""></operating></pre>	architectures	<string></string>	<pre><operating system=""></operating></pre>	Plain	sol
august	augusts	<month></month>	<world></world>	PlainGlobal	core
august <integer></integer>	augusts	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
august <integer> of <integer></integer></integer>	augusts	<date></date>	<integer></integer>	Numbered	core
august of <integer></integer>	augusts	<month and="" year=""></month>	<integer></integer>	Plain	core
autoboot value of <zone></zone>	autoboot values	<boolean></boolean>	<zone></zone>	Plain	sol
average of <evaluation cycle=""></evaluation>	averages	<integer></integer>	<evaluation cycle=""></evaluation>	Plain	sol
b <string> of <html></html></string>	bs	<html></html>	<html></html>	Named	core
b <string> of <string></string></string>	bs	<html></html>	<string></string>	Named	core
b of <html></html>	bs	<html></html>	<html></html>	Plain	core
b of <string></string>	bs	<html></html>	<string></string>	Plain	core
base <string> of <html></html></string>	bases	<html></html>	<html></html>	Named	core
base <string> of <string></string></string>	bases	<html></html>	<string></string>	Named	core
base of <html></html>	bases	<html></html>	<html></html>	Plain	core
base of <patch></patch>	bases	<string></string>	<patch></patch>	Plain	sol
base of <string></string>	bases	<html></html>	<string></string>	Plain	core
bes license	bes licenses		<world></world>	PlainGlobal	sol
big <string> of <html></html></string>	bigs	<html></html>	<html></html>	Named	core
big <string> of <string></string></string>	bigs	<html></html>	<string></string>	Named	core



Key Phrase	Plural	Creates a	From a	Form	Ref
big of <html></html>	bigs	<html></html>	<html></html>	Plain	core
big of <string></string>	bigs	<html></html>	<string></string>	Plain	core
binary operator <string></string>	binary operators	 	<world></world>	NamedGlobal	core
binary operator returning <type></type>	binary operators returning	 	<world></world>	Index <type>Glob al</type>	core
bit <integer></integer>	bits	 	<world></world>	NumberedGlobal	core
bit <integer> of <bit set=""></bit></integer>	bits	<boolean></boolean>	 	Numbered	core
bit <integer> of <integer></integer></integer>	bits	<boolean></boolean>	<integer></integer>	Numbered	core
bit set <string></string>	bit sets	 	<world></world>	NamedGlobal	core
blockquote <string> of <html></html></string>	blockquotes	<html></html>	<html></html>	Named	core
blockquote <string> of <string></string></string>	blockquotes	<html></html>	<string></string>	Named	core
blockquote of <html></html>	blockquotes	<html></html>	<html></html>	Plain	core
blockquote of <string></string>	blockquotes	<html></html>	<string></string>	Plain	core
body <string> of <html></html></string>	bodys	<html></html>	<html></html>	Named	core
body <string> of <string></string></string>	bodys	<html></html>	<string></string>	Named	core
body of <html></html>	bodys	<html></html>	<html></html>	Plain	core
body of <string></string>	bodys	<html></html>	<string></string>	Plain	core
boolean <string></string>	booleans	<boolean></boolean>	<world></world>	NamedGlobal	core
boot argument <integer> of <zone></zone></integer>	boot arguments	<string></string>	<zone></zone>	Numbered	sol
boot argument of <zone></zone>	boot arguments	<string></string>	<zone></zone>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
boot time of <operating system=""></operating>	boot times	<time></time>	<pre><operating system=""></operating></pre>	Plain	sol
br	brs	<html></html>	<world></world>	PlainGlobal	core
br <string></string>	brs	<html></html>	<world></world>	NamedGlobal	core
brand of <client></client>	brands	<string></string>	<client></client>	Plain	<u>sol</u>
brand of <zone></zone>	brands	<string></string>	<zone></zone>	Plain	sol
broadcast address of <network adapter<br="">interface></network>	broadcast addresses	<ipv4or6 address></ipv4or6 	<network adapter="" interface=""></network>	Plain	sol
broadcast address of <network ip<br="">interface></network>	broadcast addresses	<ipv4 address=""></ipv4>	<network interface="" ip=""></network>	Plain	sol
broadcast support of <network adapter<br="">interface></network>	broadcast supports	<boolean></boolean>	<network adapter="" interface=""></network>	Plain	sol
broadcast support of <network ip<br="">interface></network>	broadcast supports	<boolean></boolean>	<network interface="" ip=""></network>	Plain	sol
build of <operating system=""></operating>	builds	<string></string>	<pre><operating system=""></operating></pre>	Plain	sol
byte <integer> of <file></file></integer>	bytes	<integer></integer>	<file></file>	Numbered	sol
caption <string> of <html></html></string>	captions	<html></html>	<html></html>	Named	core
caption <string> of <string></string></string>	captions	<html></html>	<string></string>	Named	core
caption of <html></html>	captions	<html></html>	<html></html>	Plain	core
caption of <string></string>	captions	<html></html>	<string></string>	Plain	core
case insensitive regex <string></string>	case insensitive regexes	<regular expression></regular 	<world></world>	NamedGlobal	regx
case insensitive regular expression <string></string>	case insensitive regular expressions	<regular expression></regular 	<world></world>	NamedGlobal	regx



Key Phrase	Plural	Creates a	From a	Form	Ref
cast <string></string>	casts	<cast></cast>	<world></world>	NamedGlobal	core
cast from of <type></type>	casts from	<cast></cast>	<type></type>	Plain	core
cast returning <type></type>	casts returning	<cast></cast>	<world></world>	Index <type>Glob al</type>	core
category of <pkginfo></pkginfo>	categories	<string></string>	<pkginfo></pkginfo>	Plain	sol
change time of <symlink></symlink>	change times	<time></time>	<symlink></symlink>	Plain	sol
character <integer></integer>	characters	<string></string>	<world></world>	NumberedGlobal	core
character <integer> of <string></string></integer>	characters	<substring></substring>	<string></string>	Numbered	core
character of <string></string>	characters	<substring></substring>	<string></string>	Plain	core
cidr address of <network adapter<br="">interface></network>	cidr addresses	<string></string>	<network adapter="" interface=""></network>	Plain	<u>sol</u>
cidr address of <network adapter=""></network>	cidr addresses	<string></string>	<network adapter=""></network>	Plain	<u>sol</u>
cidr address of <network ip<br="">interface></network>	cidr addresses	<string></string>	<network interface="" ip=""></network>	Plain	<u>sol</u>
cidr string of <network adapter<br="">interface></network>	cidr strings	<string></string>	<network adapter="" interface=""></network>	Plain	sol
cidr string of <network adapter=""></network>	cidr strings	<string></string>	<network adapter=""></network>	Plain	<u>sol</u>
cidr string of <network ip<br="">interface></network>	cidr strings	<string></string>	<network interface="" ip=""></network>	Plain	sol
cite <string> of <html></html></string>	cites	<html></html>	<html></html>	Named	core
cite <string> of <string></string></string>	cites	<html></html>	<string></string>	Named	core
cite of <html></html>	cites	<html></html>	<html></html>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
cite of <string></string>	cites	<html></html>	<string></string>	Plain	core
client	clients	<cli>ent></cli>	<world></world>	PlainGlobal	sol
client cryptography	client cryptographies	<cli>client_cryptograp hy></cli>	<world></world>	PlainGlobal	<u>sol</u>
client folder of <site></site>	client folders	<folder></folder>	<site></site>	Plain	<u>sol</u>
client license	client licenses		<world></world>	PlainGlobal	<u>sol</u>
code <string> of <html></html></string>	codes	<html></html>	<html></html>	Named	core
code <string> of <string></string></string>	codes	<html></html>	<string></string>	Named	core
code of <html></html>	codes	<html></html>	<html></html>	Plain	core
code of <string></string>	codes	<html></html>	<string></string>	Plain	core
codename of <operating system=""></operating>	codenames	<string></string>	<pre><operating system=""></operating></pre>	Plain	sol
col <string> of <html></html></string>	cols	<html></html>	<html></html>	Named	core
col <string> of <string></string></string>	cols	<html></html>	<string></string>	Named	core
col of <html></html>	cols	<html></html>	<html></html>	Plain	core
col of <string></string>	cols	<html></html>	<string></string>	Plain	core
colgroup <string> of <html></html></string>	colgroups	<html></html>	<html></html>	Named	core
colgroup <string> of <string></string></string>	colgroups	<html></html>	<string></string>	Named	core
colgroup of <html></html>	colgroups	<html></html>	<html></html>	Plain	core
colgroup of <string></string>	colgroups	<html></html>	<string></string>	Plain	core
command line argument <integer> of <pre>cprocess></pre></integer>	command line arguments	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Numbered	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
command line argument of <pre>cprocess></pre>	command line arguments	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
comment of <zone></zone>	comments	<string></string>	<zone></zone>	Plain	<u>sol</u>
common name of clicense>	common names	<string></string>	clicense>	Plain	sol
competition size of <selected server=""></selected>	competition sizes	<integer></integer>	<selected server></selected 	Plain	sol
competition weight of <selected server=""></selected>	competition weights	<integer></integer>	<selected server></selected 	Plain	sol
complete time of <action></action>	complete times	<time></time>	<action></action>	Plain	sol
component <integer> of <site list="" version=""></site></integer>	components	<integer></integer>	<site list="" version=""></site>	Numbered	core
computer count of <bes product=""></bes>	computer counts	<integer></integer>	<bes product=""></bes>	Plain	sol
computer id	computer ids	<integer></integer>	<world></world>	PlainGlobal	sol
computer name	computer names	<string></string>	<world></world>	PlainGlobal	<u>sol</u>
concatenation <html> of <html></html></html>	concatenations	<html></html>	<html></html>	Index <html></html>	core
concatenation <html> of <string></string></html>	concatenations	<html></html>	<string></string>	Index <html></html>	core
concatenation <string> of <html></html></string>	concatenations	<html></html>	<html></html>	Named	core
concatenation <string> of <string></string></string>	concatenations	<string></string>	<string></string>	Named	core
concatenation of httml>	concatenations	<html></html>	<html></html>	Plain	core
concatenation of <string></string>	concatenations	<string></string>	<string></string>	Plain	core
configuration state of <zone></zone>	configuration states	<string></string>	<zone></zone>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
conjunction of <boolean></boolean>	conjunctions	<boolean></boolean>	<boolean></boolean>	Plain	core
constrained of <action></action>	constraineds	<boolean></boolean>	<action></action>	Plain	sol
content of <file></file>	contents	<file content=""></file>	<file></file>	Plain	sol
controller of <action lock="" state=""></action>	controllers	<string></string>	<action lock<br="">state></action>	Plain	sol
cryptography	cryptographies	<cryptography></cryptography>	<world></world>	PlainGlobal	core
current analysis	current analyses	<fixlet></fixlet>	<world></world>	PlainGlobal	sol
current date	current dates	<date></date>	<world></world>	PlainGlobal	core
current day_of_month	current days_of_month	<day month="" of=""></day>	<world></world>	PlainGlobal	core
current day_of_week	current days_of_week	<day of="" week=""></day>	<world></world>	PlainGlobal	core
current day_of_year	current days_of_year	<day of="" year=""></day>	<world></world>	PlainGlobal	core
current month	current months	<month></month>	<world></world>	PlainGlobal	core
current month_and_year	current months_and_ye ars	<month and="" year=""></month>	<world></world>	PlainGlobal	core
current relay	current relays	<current relay=""></current>	<world></world>	PlainGlobal	sol
current site	current sites	<site></site>	<world></world>	PlainGlobal	sol
current time_of_day	current times_of_day	<time day="" of="" time="" with="" zone=""></time>	<world></world>	PlainGlobal	core
current time_of_day <time zone=""></time>	current times_of_day	<time day="" of="" time="" with="" zone=""></time>	<world></world>	Index <time zone>Global</time 	core
current user	current users	<user></user>	<world></world>	PlainGlobal	sol
current year	current years	<year></year>	<world></world>	PlainGlobal	core
custom site subscription effective date <string></string>	custom site subscription effective dates	<time></time>	<world></world>	NamedGlobal	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
date <string></string>	dates	<date></date>	<world></world>	NamedGlobal	core
date <time zone=""> of <time></time></time>	dates	<date></date>	<time></time>	Index <time zone></time 	core
date of <bios></bios>	dates	<string></string>	<bios></bios>	Plain	<u>sol</u>
day	days	<time interval=""></time>	<world></world>	PlainGlobal	core
day of <day of="" year=""></day>	days	<day month="" of=""></day>	<day of="" year=""></day>	Plain	core
day_of_month <integer></integer>	days_of_month	<day month="" of=""></day>	<world></world>	NumberedGlobal	core
day_of_month <string></string>	days_of_month	<day month="" of=""></day>	<world></world>	NamedGlobal	core
day_of_month of <date></date>	days_of_month	<day month="" of=""></day>	<date></date>	Plain	core
day_of_week <string></string>	days_of_week	<day of="" week=""></day>	<world></world>	NamedGlobal	core
day_of_week of <date></date>	days_of_week	<day of="" week=""></day>	<date></date>	Plain	core
day_of_year of <date></date>	days_of_year	<day of="" year=""></day>	<date></date>	Plain	core
dd <string> of <html></html></string>	dds	<html></html>	<html></html>	Named	core
dd <string> of <string></string></string>	dds	<html></html>	<string></string>	Named	core
dd of <html></html>	dds	<html></html>	<html></html>	Plain	core
dd of <string></string>	dds	<html></html>	<string></string>	Plain	core
december	decembers	<month></month>	<world></world>	PlainGlobal	core
december <integer></integer>	decembers	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
december <integer> of <integer></integer></integer>	decembers	<date></date>	<integer></integer>	Numbered	core
december of <integer></integer>	decembers	<month and="" year=""></month>	<integer></integer>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
default web browser	default web browsers	<file></file>	<world></world>	PlainGlobal	sol
definition list <string> of <html></html></string>	definition lists	<html></html>	<html></html>	Named	core
definition list <string> of <string></string></string>	definition lists	<html></html>	<string></string>	Named	core
definition list of <html></html>	definition lists	<html></html>	<html></html>	Plain	core
definition list of <string></string>	definition lists	<html></html>	<string></string>	Plain	core
del <string> of <html></html></string>	dels	<html></html>	<html></html>	Named	core
del <string> of <string></string></string>	dels	<html></html>	<string></string>	Named	core
del of <html></html>	dels	<html></html>	<html></html>	Plain	core
del of <string></string>	dels	<html></html>	<string></string>	Plain	core
dependency known of <pre>of coperty></pre>	dependencies known	<boolean></boolean>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain	core
descendant folder of <folder></folder>	descendant folders	<folder></folder>	<folder></folder>	Plain	<u>sol</u>
descendant of <folder></folder>	descendants	<file></file>	<folder></folder>	Plain	<u>sol</u>
desired encrypt report of <cli>client_cryptography ></cli>	desired encrypt reports	<boolean></boolean>	<cli>client_cryptogra phy></cli>	Plain	sol
desired fips mode of <cryptography></cryptography>	desired fips modes	<boolean></boolean>	<cryptography></cryptography>	Plain	core
device file <filesystem object=""></filesystem>	device files	<device file=""></device>	<world></world>	Index <filesystem object>Global</filesystem 	sol
device file <string></string>	device files	<device file=""></device>	<world></world>	NamedGlobal	sol
device file <string> of <folder></folder></string>	device files	<device file=""></device>	<folder></folder>	Named	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
device file <symlink></symlink>	device files	<device file=""></device>	<world></world>	Index <symlink>G lobal</symlink>	<u>sol</u>
device file of <folder></folder>	device files	<device file=""></device>	<folder></folder>	Plain	<u>sol</u>
device type of <device file=""></device>	device types	<string></string>	<device file=""></device>	Plain	sol
dfn <string> of <html></html></string>	dfns	<html></html>	<html></html>	Named	core
dfn <string> of <string></string></string>	dfns	<html></html>	<string></string>	Named	core
dfn of <html></html>	dfns	<html></html>	<html></html>	Plain	core
dfn of <string></string>	dfns	<html></html>	<string></string>	Plain	core
direct object type of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	direct object types	<type></type>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	core
disjunction of <boolean></boolean>	disjunctions	<boolean></boolean>	<boolean></boolean>	Plain	core
distance of <selected server=""></selected>	distances	<integer range=""></integer>	<selected server=""></selected>	Plain	<u>sol</u>
div <string> of <html></html></string>	divs	<html></html>	<html></html>	Named	core
div <string> of <string></string></string>	divs	<html></html>	<string></string>	Named	core
div of <html></html>	divs	<html></html>	<html></html>	Plain	core
div of <string></string>	divs	<html></html>	<string></string>	Plain	core
dns name	dns names	<string></string>	<world></world>	PlainGlobal	sol
domain name	domain names	<string></string>	<world></world>	PlainGlobal	sol
domainname	domainnames	<string></string>	<world></world>	PlainGlobal	sol
download file <string></string>	download files	<file></file>	<world></world>	NamedGlobal	<u>sol</u>
download path <string></string>	download paths	<string></string>	<world></world>	NamedGlobal	<u>sol</u>

Key Phrase	Plural	Creates a	From a	Form	Ref
download storage folder	download storage folders	<download storage folder></download 	<world></world>	PlainGlobal	sol
drive	drives	<filesystem></filesystem>	<world></world>	PlainGlobal	sol
drive <string></string>	drives	<filesystem></filesystem>	<world></world>	NamedGlobal	sol
drive of <device file=""></device>	drives	<filesystem></filesystem>	<device file=""></device>	Plain	sol
drive of <fifo file=""></fifo>	drives	<filesystem></filesystem>	<fifo file=""></fifo>	Plain	sol
drive of <file></file>	drives	<filesystem></filesystem>	<file></file>	Plain	sol
drive of <folder></folder>	drives	<filesystem></filesystem>	<folder></folder>	Plain	sol
drive of <socket file=""></socket>	drives	<filesystem></filesystem>	<socket file=""></socket>	Plain	sol
drive of <symlink></symlink>	drives	<filesystem></filesystem>	<symlink></symlink>	Plain	sol
dt <string> of <html></html></string>	dts	<html></html>	<html></html>	Named	core
dt <string> of <string></string></string>	dts	<html></html>	<string></string>	Named	core
dt of <html></html>	dts	<html></html>	<html></html>	Plain	core
dt of <string></string>	dts	<html></html>	<string></string>	Plain	core
effective date of <action lock="" state=""></action>	effective dates	<time></time>	<action lock="" state=""></action>	Plain	sol
effective date of <setting></setting>	effective dates	<time></time>	<setting></setting>	Plain	sol
effective time of <runlevel></runlevel>	effective times	<time></time>	<runlevel></runlevel>	Plain	sol
element of <integer set=""></integer>	elements	<integer></integer>	<integer set=""></integer>	Plain	core
element of <string set></string 	elements	<string></string>	<string set=""></string>	Plain	core
em <string> of <html></html></string>	ems	<html></html>	<html></html>	Named	core
em <string> of <string></string></string>	ems	<html></html>	<string></string>	Named	core



Key Phrase	Plural	Creates a	From a	Form	Ref
em of <html></html>	ems	<html></html>	<html></html>	Plain	core
em of <string></string>	ems	<html></html>	<string></string>	Plain	core
email address of <license></license>	email addresses	<string></string>	clicense>	Plain	sol
enabled of <setting></setting>	enableds	<boolean></boolean>	<setting></setting>	Plain	<u>sol</u>
encrypt report failure message of <client_cryptography ></client_cryptography 	encrypt report failure messages	<string></string>	<cli>client_cryptogra phy></cli>	Plain	<u>sol</u>
encrypt report of <cli>client_cryptography ></cli>	encrypt reports	<boolean></boolean>	<cli>client_cryptogra phy></cli>	Plain	sol
encryption certificate of <license></license>	encryption certificates	<x509 certificate=""></x509>	clicense>	Plain	sol
end of <substring></substring>	ends	<string position=""></string>	<substring></substring>	Plain	core
end of <time range=""></time>	ends	<time></time>	<time range=""></time>	Plain	core
environment	environments	<environment></environment>	<world></world>	PlainGlobal	<u>sol</u>
environment of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	environments	<environment></environment>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
error <string></string>	errors	<undefined></undefined>	<world></world>	NamedGlobal	core
evaluation of	evaluations	<boolean></boolean>	clicense>	Plain	sol
evaluationcycle of <client></client>	evaluationcycles	<evaluation cycle=""></evaluation>	<cli>client></cli>	Plain	sol
exclusive ip of <zone></zone>	exclusive ips	<boolean></boolean>	<zone></zone>	Plain	sol
execute of <mode_mask></mode_mask>	executes	<boolean></boolean>	<mode_mask></mode_mask>	Plain	sol
execution state of <zone></zone>	execution states	<string></string>	<zone></zone>	Plain	sol
exit code of <action></action>	exit codes	<integer></integer>	<action></action>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
expiration date of <action lock="" state=""></action>	expiration dates	<time></time>	<action lock<br="">state></action>	Plain	sol
expiration date of <bes product=""></bes>	expiration dates	<date></date>	<bes product=""></bes>	Plain	sol
expiration date of cense>	expiration dates	<time></time>		Plain	sol
expiration state of cense>	expiration states	<string></string>		Plain	sol
extrema of <date></date>	extremas	<(date, date)>	<date></date>	Plain	core
extrema of <day month="" of=""></day>	extremas	<(day of month, day of month)>	<day month="" of=""></day>	Plain	core
extrema of <day of="" year=""></day>	extremas	<(day of year, day of year)>	<day of="" year=""></day>	Plain	core
extrema of <hertz></hertz>	extremas	<(hertz, hertz)>	<hertz></hertz>	Plain	core
extrema of <integer></integer>	extremas	<(integer, integer)>	<integer></integer>	Plain	core
extrema of <ipv4 address></ipv4 	extremas	<(ipv4 address, ipv4 address)>	<ipv4 address=""></ipv4>	Plain	core
extrema of <ipv4or6 address=""></ipv4or6>	extremas	<(ipv4or6 address, ipv4or6 address)>	<ipv4or6 address></ipv4or6 	Plain	core
extrema of <ipv6 address></ipv6 	extremas	<(ipv6 address, ipv6 address)>	<ipv6 address=""></ipv6>	Plain	core
extrema of <month and="" year=""></month>	extremas	<(month and year, month and year)>	<month and="" year=""></month>	Plain	core
extrema of <month></month>	extremas	<(month, month	<month></month>	Plain	core
extrema of <number months="" of=""></number>	extremas	<(number of months, number of months)>	<number months="" of=""></number>	Plain	core
extrema of <site list="" version=""></site>	extremas	<(site version list, site version list)>	<site list="" version=""></site>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
extrema of <time interval=""></time>	extremas	<(time interval, time interval)>	<time interval=""></time>	Plain	core
extrema of <time day="" of=""></time>	extremas	<(time of day, time of day)>	<time day="" of=""></time>	Plain	core
extrema of <time></time>	extremas	<(time, time)>	<time></time>	Plain	core
extrema of <uuid></uuid>	extremas	<(uuid, uuid)>	<uuid></uuid>	Plain	<u>sol</u>
extrema of <version></version>	extremas	<(version, version)>	<version></version>	Plain	core
extrema of <year></year>	extremas	<(year, year)>	<year></year>	Plain	core
false	falses	<boolean></boolean>	<world></world>	PlainGlobal	core
family name of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	family names	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
family of <network interface=""></network>	families	<integer></integer>	<network interface=""></network>	Plain	sol
family of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	families	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
february	februarys	<month></month>	<world></world>	PlainGlobal	core
february <integer></integer>	februarys	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
february <integer> of <integer></integer></integer>	februarys	<date></date>	<integer></integer>	Numbered	core
february of <integer></integer>	februarys	<month and="" year=""></month>	<integer></integer>	Plain	core
fifo file <filesystem object=""></filesystem>	fifo files	<fifo file=""></fifo>	<world></world>	Index <filesystem object="">Global</filesystem>	sol
fifo file <string></string>	fifo files	<fifo file=""></fifo>	<world></world>	NamedGlobal	<u>sol</u>
fifo file <string> of <folder></folder></string>	fifo files	<fifo file=""></fifo>	<folder></folder>	Named	sol
fifo file <symlink></symlink>	fifo files	<fifo file=""></fifo>	<world></world>	Index <symlink>G lobal</symlink>	sol
fifo file of <folder></folder>	fifo files	<fifo file=""></fifo>	<folder></folder>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
file <string></string>	files	<file></file>	<world></world>	NamedGlobal	sol
file <string> of <folder></folder></string>	files	<file></file>	<folder></folder>	Named	sol
file <symlink></symlink>	files	<file></file>	<world></world>	Index <symlink>G lobal</symlink>	sol
file count of <filesystem></filesystem>	file counts	<integer></integer>	<filesystem></filesystem>	Plain	sol
file of <folder></folder>	files	<file></file>	<folder></folder>	Plain	<u>sol</u>
filesystem	filesystems	<filesystem></filesystem>	<world></world>	PlainGlobal	<u>sol</u>
filesystem <string></string>	filesystems	<filesystem></filesystem>	<world></world>	NamedGlobal	<u>sol</u>
filesystem of <device file=""></device>	filesystems	<filesystem></filesystem>	<device file=""></device>	Plain	<u>sol</u>
filesystem of <fifo< td=""><td>filesystems</td><td><filesystem></filesystem></td><td><fifo file=""></fifo></td><td>Plain</td><td><u>sol</u></td></fifo<>	filesystems	<filesystem></filesystem>	<fifo file=""></fifo>	Plain	<u>sol</u>
filesystem of <file></file>	filesystems	<filesystem></filesystem>	<file></file>	Plain	sol
filesystem of <folder></folder>	filesystems	<filesystem></filesystem>	<folder></folder>	Plain	<u>sol</u>
filesystem of <socket file=""></socket>	filesystems	<filesystem></filesystem>	<socket file=""></socket>	Plain	<u>sol</u>
filesystem of <symlink></symlink>	filesystems	<filesystem></filesystem>	<symlink></symlink>	Plain	<u>sol</u>
final part <time interval> of <time range></time </time 	final parts	<time range=""></time>	<time range=""></time>	Index <time interval></time 	core
find adapter <string> of <network></network></string>	find adapters	<network adapter></network 	<network></network>	Named	<u>sol</u>
find file <string> of <folder></folder></string>	find files	<file></file>	<folder></folder>	Named	<u>sol</u>
find folder <string> of <folder></folder></string>	find folders	<folder></folder>	<folder></folder>	Named	<u>sol</u>
fips mode failure message of <cryptography></cryptography>	fips mode failure messages	<string></string>	<cryptography></cryptography>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
fips mode of <cryptography></cryptography>	fips modes	<boolean></boolean>	<cryptography></cryptography>	Plain	core
fips mode of cense>	fips modes	<boolean></boolean>		Plain	sol
first <day of="" week=""> of <month and="" year=""></month></day>	firsts	<date></date>	<month and="" year=""></month>	Index <day of="" week=""></day>	core
first <integer> of <string></string></integer>	firsts	<substring></substring>	<string></string>	Numbered	core
first <string> of <string></string></string>	firsts	<substring></substring>	<string></string>	Named	core
first friday of <month and="" year=""></month>	first fridays	<date></date>	<month and="" year=""></month>	Plain	core
first match <regular expression> of <string></string></regular 	first matches	<regular expression match></regular 	<string></string>	Index <regular expression=""></regular>	regx
first monday of <month and="" year=""></month>	first mondays	<date></date>	<month and="" year=""></month>	Plain	core
first saturday of <month and="" year=""></month>	first saturdays	<date></date>	<month and="" year=""></month>	Plain	core
first start time of <application usage<br="">summary instance></application>	first start times	<time></time>	<application instance="" summary="" usage=""></application>	Plain	sol
first start time of <application usage<br="">summary></application>	first start times	<time></time>	<application summary="" usage=""></application>	Plain	sol
first sunday of <month and="" year=""></month>	first sundays	<date></date>	<month and="" year=""></month>	Plain	core
first thursday of <month and="" year=""></month>	first thursdays	<date></date>	<month and="" year=""></month>	Plain	core
first tuesday of <month and="" year=""></month>	first tuesdays	<date></date>	<month and="" year=""></month>	Plain	core
first wednesday of <month and="" year=""></month>	first wednesdays	<date></date>	<month and="" year=""></month>	Plain	core
fixlet of <site></site>	fixlets	<fixlet></fixlet>	<site></site>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
folder <string></string>	folders	<folder></folder>	<world></world>	NamedGlobal	sol
folder <string> of <folder></folder></string>	folders	<folder></folder>	<folder></folder>	Named	<u>sol</u>
folder <symlink></symlink>	folders	<folder></folder>	<world></world>	Index <symlink>G lobal</symlink>	<u>sol</u>
folder of <folder></folder>	folders	<folder></folder>	<folder></folder>	Plain	sol
following text of <string position=""></string>	following texts	<substring></substring>	<string position=""></string>	Plain	core
following text of <substring></substring>	following texts	<substring></substring>	<substring></substring>	Plain	core
fputype of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	fputypes	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<u>sol</u>
free amount of <ram></ram>	free amounts	<integer></integer>	<ram></ram>	Plain	<u>sol</u>
free file count of <filesystem></filesystem>	free file counts	<integer></integer>	<filesystem></filesystem>	Plain	<u>sol</u>
free percent of <filesystem></filesystem>	free percents	<integer></integer>	<filesystem></filesystem>	Plain	<u>sol</u>
free space of <filesystem></filesystem>	free spaces	<integer></integer>	<filesystem></filesystem>	Plain	<u>sol</u>
friday	fridays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
friendly name of <network adapter=""></network>	friendly names	<string></string>	<network adapter=""></network>	Plain	<u>sol</u>
full gateway address of <selected server=""></selected>	full gateway addresses	<ipv4or6 address=""></ipv4or6>	<selected server=""></selected>	Plain	<u>sol</u>
full of <power level=""></power>	fulls	<boolean></boolean>	<power level=""></power>	Plain	sol
gateway address <integer> of <selected server=""></selected></integer>	gateway addresses	<ipv4or6 address></ipv4or6 	<selected server=""></selected>	Numbered	sol
gateway address of <selected server=""></selected>	gateway addresses	<ipv4or6 address=""></ipv4or6>	<selected server=""></selected>	Plain	<u>sol</u>



Key Phrase	Plural	Creates a	From a	Form	Ref
gather schedule authority of <site></site>	gather schedule authoritys	<string></string>	<site></site>	Plain	sol
gather schedule time interval of <site></site>	gather schedule time intervals	<time interval=""></time>	<site></site>	Plain	sol
gather url of <license></license>	gather urls	<string></string>		Plain	sol
ghz	ghzs	<hertz></hertz>	<world></world>	PlainGlobal	core
gid of <filesystem object=""></filesystem>	gids	<integer></integer>	<filesystem object=""></filesystem>	Plain	sol
gid of <symlink></symlink>	gids	<integer></integer>	<symlink></symlink>	Plain	sol
greatest hz	greatest hzs	<hertz></hertz>	<world></world>	PlainGlobal	core
greatest integer	greatest integers	<integer></integer>	<world></world>	PlainGlobal	core
greatest revision of <patch></patch>	greatest revisions	<string></string>	<patch></patch>	Plain	sol
greatest time interval	greatest time intervals	<time interval=""></time>	<world></world>	PlainGlobal	core
group <integer> of <site></site></integer>	groups	<site group=""></site>	<site></site>	Numbered	sol
group execute of <filesystem object=""></filesystem>	group executes	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
group leader of <action></action>	group leaders	<boolean></boolean>	<action></action>	Plain	sol
group mask of <filesystem object=""></filesystem>	group masks	<integer></integer>	<filesystem object=""></filesystem>	Plain	sol
group mask of <mode></mode>	group masks	<mode_mask></mode_mask>	<mode></mode>	Plain	<u>sol</u>
group name of <filesystem object=""></filesystem>	group names	<string></string>	<filesystem object=""></filesystem>	Plain	sol
group name of <symlink></symlink>	group names	<string></string>	<symlink></symlink>	Plain	<u>sol</u>

Key Phrase	Plural	Creates a	From a	Form	Ref
group read of <filesystem object=""></filesystem>	group reads	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
group write of <filesystem object=""></filesystem>	group writes	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
h1 <string> of <html></html></string>	h1s	<html></html>	<html></html>	Named	core
h1 <string> of <string></string></string>	h1s	<html></html>	<string></string>	Named	core
h1 of <html></html>	h1s	<html></html>	<html></html>	Plain	core
h1 of <string></string>	h1s	<html></html>	<string></string>	Plain	core
h2 <string> of <html></html></string>	h2s	<html></html>	<html></html>	Named	core
h2 <string> of <string></string></string>	h2s	<html></html>	<string></string>	Named	core
h2 of <html></html>	h2s	<html></html>	<html></html>	Plain	core
h2 of <string></string>	h2s	<html></html>	<string></string>	Plain	core
h3 <string> of <html></html></string>	h3s	<html></html>	<html></html>	Named	core
h3 <string> of <string></string></string>	h3s	<html></html>	<string></string>	Named	core
h3 of <html></html>	h3s	<html></html>	<html></html>	Plain	core
h3 of <string></string>	h3s	<html></html>	<string></string>	Plain	core
h4 <string> of <html></html></string>	h4s	<html></html>	<html></html>	Named	core
h4 <string> of <string></string></string>	h4s	<html></html>	<string></string>	Named	core
h4 of <html></html>	h4s	<html></html>	<html></html>	Plain	core
h4 of <string></string>	h4s	<html></html>	<string></string>	Plain	core
h5 <string> of <html></html></string>	h5s	<html></html>	<html></html>	Named	core
h5 <string> of <string></string></string>	h5s	<html></html>	<string></string>	Named	core
h5 of <html></html>	h5s	<html></html>	<html></html>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
h5 of <string></string>	h5s	<html></html>	<string></string>	Plain	core
h6 <string> of <html></html></string>	h6s	<html></html>	<html></html>	Named	core
h6 <string> of <string></string></string>	h6s	<html></html>	<string></string>	Named	core
h6 of <html></html>	h6s	<html></html>	<html></html>	Plain	core
h6 of <string></string>	h6s	<html></html>	<string></string>	Plain	core
head <string> of <html></html></string>	heads	<html></html>	<html></html>	Named	core
head <string> of <string></string></string>	heads	<html></html>	<string></string>	Named	core
head of <html></html>	heads	<html></html>	<html></html>	Plain	core
head of <string></string>	heads	<html></html>	<string></string>	Plain	core
header <string> of <fixlet></fixlet></string>	headers	<fixlet_header></fixlet_header>	<fixlet></fixlet>	Named	<u>sol</u>
header of <fixlet></fixlet>	headers	<fixlet_header></fixlet_header>	<fixlet></fixlet>	Plain	sol
hexadecet <integer> of <ipv4or6 address=""></ipv4or6></integer>	hexadecets	<integer></integer>	<ipv4or6 address></ipv4or6 	Numbered	core
hexadecet <integer> of <ipv6 address=""></ipv6></integer>	hexadecets	<integer></integer>	<ipv6 address=""></ipv6>	Numbered	core
hexadecimal integer <string></string>	hexadecimal integers	<integer></integer>	<world></world>	NamedGlobal	core
hexadecimal string <string></string>	hexadecimal strings	<string></string>	<world></world>	NamedGlobal	core
host name	host names	<string></string>	<world></world>	PlainGlobal	<u>sol</u>
host name of <root server=""></root>	host names	<string></string>	<root server=""></root>	Plain	sol
hostname	hostnames	<string></string>	<world></world>	PlainGlobal	sol
hour	hours	<time interval=""></time>	<world></world>	PlainGlobal	core

Key Phrase	Plural	Creates a	From a	Form	Ref
hour_of_day of <time of day with time zone></time 	hours_of_day	<integer></integer>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
hour_of_day of <time day="" of=""></time>	hours_of_day	<integer></integer>	<time day="" of=""></time>	Plain	core
hr	hrs	<html></html>	<world></world>	PlainGlobal	core
hr <string></string>	hrs	<html></html>	<world></world>	NamedGlobal	core
html <string></string>	htmls	<html></html>	<world></world>	NamedGlobal	core
html <string> of <html></html></string>	htmls	<html></html>	<html></html>	Named	core
html <string> of <string></string></string>	htmls	<html></html>	<string></string>	Named	core
html concatenation <string> of <html></html></string>	html concatenations	<html></html>	<html></html>	Named	core
html concatenation of html concatenation of html concatenation of html concatenation of httml concatenation of https://www.ntml	html concatenations	<html></html>	<html></html>	Plain	core
html of <html></html>	htmls	<html></html>	<html></html>	Plain	core
html of <string></string>	htmls	<html></html>	<string></string>	Plain	core
html tag <(string, html)>	html tags	<html></html>	<world></world>	Index<(string, html)>Global	core
html tag <(string, html attribute list)>	html tags	<html></html>	<world></world>	Index<(string, html attribute list)>Global	core
html tag <(string, html attribute list, html)>	html tags	<html></html>	<world></world>	Index<(string, html attribute list, html)>Global	core
html tag <(string, html attribute list, string)>	html tags	<html></html>	<world></world>	Index<(string, html attribute list, string)>Global	core
html tag <(string, string)>	html tags	<html></html>	<world></world>	Index<(string, string)>Global	core
html tag <string> of <html></html></string>	html tags	<html></html>	<html></html>	Named	core



Key Phrase	Plural	Creates a	From a	Form	Ref
html tag <string> of <string></string></string>	html tags	<html></html>	<string></string>	Named	core
hz	hzs	<hertz></hertz>	<world></world>	PlainGlobal	core
id of <action></action>	ids	<integer></integer>	<action></action>	Plain	sol
id of <fixlet></fixlet>	ids	<integer></integer>	<fixlet></fixlet>	Plain	sol
id of <pre><pre>cess></pre></pre>	ids	<integer></integer>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
id of <pre><pre>cessor></pre></pre>	ids	<integer></integer>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
id of <root server=""></root>	ids	<integer></integer>	<root server=""></root>	Plain	sol
id of <site group=""></site>	ids	<integer></integer>	<site group=""></site>	Plain	sol
id of <zone></zone>	ids	<integer></integer>	<zone></zone>	Plain	sol
index of <pre><pre>cessor></pre></pre>	indexes	<integer></integer>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
index type of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	index types	<type></type>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	core
inherited package directory of <zone></zone>	inherited package directories	<string></string>	<zone></zone>	Plain	sol
init process of <zone></zone>	init processes	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<zone></zone>	Plain	sol
initial part <time interval> of <time range></time </time 	initial parts	<time range=""></time>	<time range=""></time>	Index <time interval></time 	core
ins <string> of <html></html></string>	inss	<html></html>	<html></html>	Named	core
ins <string> of <string></string></string>	inss	<html></html>	<string></string>	Named	core
ins of <html></html>	inss	<html></html>	<html></html>	Plain	core
ins of <string></string>	inss	<html></html>	<string></string>	Plain	core
instance of <application usage<br="">summary></application>	instances	<application instance="" summary="" usage=""></application>	<application summary="" usage=""></application>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
integer <integer></integer>	integers	<integer></integer>	<world></world>	NumberedGlobal	core
integer <string></string>	integers	<integer></integer>	<world></world>	NamedGlobal	core
integer in <(integer, integer)>	integers in	<integer></integer>	<world></world>	Index<(integer, integer)>Global	core
integer in <(integer, integer,)>	integers in	<integer></integer>	<world></world>	Index<(integer, integer, integer, is Global	core
integer to <integer></integer>	integers to	<integer></integer>	<world></world>	NumberedGlobal	core
interface <integer> of <network></network></integer>	interfaces	<network interface=""></network>	<network></network>	Numbered	sol
interface of <network></network>	interfaces	<network interface=""></network>	<network></network>	Plain	<u>sol</u>
intersection of <integer set=""></integer>	intersections	<integer set=""></integer>	<integer set=""></integer>	Plain	core
intersection of <string set=""></string>	intersections	<string set=""></string>	<string set=""></string>	Plain	core
invalid before of <x509 certificate=""></x509>	invalid befores	<time></time>	<x509 certificate></x509 	Plain	core
ip address of <selected server=""></selected>	ip addresses	<ipv4or6 address></ipv4or6 	<selected server=""></selected>	Plain	<u>sol</u>
ip interface <integer> of <network></network></integer>	ip interfaces	<network interface="" ip=""></network>	<network></network>	Numbered	sol
ip interface of <network></network>	ip interfaces	<network interface="" ip=""></network>	<network></network>	Plain	sol
ip version <integer></integer>	ip versions	<ip version=""></ip>	<world></world>	NumberedGlobal	core
ip version of <ipv4or6 address=""></ipv4or6>	ip versions	<ip version=""></ip>	<ipv4or6 address></ipv4or6 	Plain	core
ipv4	ipv4s	<ip version=""></ip>	<world></world>	PlainGlobal	core
ipv4 address <string></string>	ipv4 addresses	<ipv4 address=""></ipv4>	<world></world>	NamedGlobal	core
ipv4 interface of <network adapter=""></network>	ipv4 interfaces	<network adapter="" interface=""></network>	<network adapter=""></network>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
ipv4 interface of <network></network>	ipv4 interfaces	<network adapter="" interface=""></network>	<network></network>	Plain	sol
ipv4 part of <ipv4or6 address=""></ipv4or6>	ipv4 parts	<ipv4 address=""></ipv4>	<ipv4or6 address></ipv4or6 	Plain	core
ipv4 part of <ipv6 address=""></ipv6>	ipv4 parts	<ipv4 address=""></ipv4>	<ipv6 address=""></ipv6>	Plain	core
ipv4or6 address <string></string>	ipv4or6 addresses	<ipv4or6 address></ipv4or6 	<world></world>	NamedGlobal	core
ipv4or6 interface of <network adapter=""></network>	ipv4or6 interfaces	<network adapter="" interface=""></network>	<network adapter></network 	Plain	sol
ipv4or6 interface of <network></network>	ipv4or6 interfaces	<network adapter="" interface=""></network>	<network></network>	Plain	sol
ipv6	ipv6s	<ip version=""></ip>	<world></world>	PlainGlobal	core
ipv6 address <string></string>	ipv6 addresses	<ipv6 address=""></ipv6>	<world></world>	NamedGlobal	core
ipv6 interface of <network adapter=""></network>	ipv6 interfaces	<network adapter="" interface=""></network>	<network adapter></network 	Plain	<u>sol</u>
ipv6 interface of <network></network>	ipv6 interfaces	<network adapter="" interface=""></network>	<network></network>	Plain	<u>sol</u>
italic <string> of <html></html></string>	italics	<html></html>	<html></html>	Named	core
italic <string> of <string></string></string>	italics	<html></html>	<string></string>	Named	core
italic of <html></html>	italics	<html></html>	<html></html>	Plain	core
italic of <string></string>	italics	<html></html>	<string></string>	Plain	core
january	januarys	<month></month>	<world></world>	PlainGlobal	core
january <integer></integer>	januarys	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
january <integer> of <integer></integer></integer>	januarys	<date></date>	<integer></integer>	Numbered	core
january of <integer></integer>	januarys	<month and="" year=""></month>	<integer></integer>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
july	julys	<month></month>	<world></world>	PlainGlobal	core
july <integer></integer>	julys	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
july <integer> of <integer></integer></integer>	julys	<date></date>	<integer></integer>	Numbered	core
july of <integer></integer>	julys	<month and="" year=""></month>	<integer></integer>	Plain	core
june	junes	<month></month>	<world></world>	PlainGlobal	core
june <integer></integer>	junes	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
june <integer> of <integer></integer></integer>	junes	<date></date>	<integer></integer>	Numbered	core
june of <integer></integer>	junes	<month and="" year=""></month>	<integer></integer>	Plain	core
kbd <string> of <html></html></string>	kbds	<html></html>	<html></html>	Named	core
kbd <string> of <string></string></string>	kbds	<html></html>	<string></string>	Named	core
kbd of <html></html>	kbds	<html></html>	<html></html>	Plain	core
kbd of <string></string>	kbds	<html></html>	<string></string>	Plain	core
key <string> of <file section=""></file></string>	keys	<string></string>	<file section=""></file>	Named	<u>sol</u>
key <string> of <file></file></string>	keys	<string></string>	<file></file>	Named	<u>sol</u>
khz	khzs	<hertz></hertz>	<world></world>	PlainGlobal	core
last <integer> of <string></string></integer>	lasts	<substring></substring>	<string></string>	Numbered	core
last <string> of <string></string></string>	lasts	<substring></substring>	<string></string>	Named	core
last change time of <action></action>	last change times	<time></time>	<action></action>	Plain	<u>sol</u>
last gather time of <site></site>	last gather times	<time></time>	<site></site>	Plain	sol
last relay select time	last relay select times	<time></time>	<world></world>	PlainGlobal	<u>sol</u>



Key Phrase	Plural	Creates a	From a	Form	Ref
last start time of <application usage<br="">summary instance></application>	last start times	<time></time>	<application instance="" summary="" usage=""></application>	Plain	sol
last start time of <application usage<br="">summary></application>	last start times	<time></time>	<application summary="" usage=""></application>	Plain	sol
last time seen of <application usage<br="">summary instance></application>	last times seen	<time></time>	<application instance="" summary="" usage=""></application>	Plain	sol
last time seen of <application usage<br="">summary></application>	last times seen	<time></time>	<application summary="" usage=""></application>	Plain	sol
leap of <year></year>	leaps	<boolean></boolean>	<year></year>	Plain	core
least hz	least hzs	<hertz></hertz>	<world></world>	PlainGlobal	core
least integer	least integers	<integer></integer>	<world></world>	PlainGlobal	core
least revision of <patch></patch>	least revisions	<string></string>	<patch></patch>	Plain	sol
least significant one bit of <bit set=""></bit>	least significant one bits	<integer></integer>	 	Plain	core
least time interval	least time intervals	<time interval=""></time>	<world></world>	PlainGlobal	core
left operand type of 	left operand types	<type></type>	 operator>	Plain	core
left shift <integer> of bit set></integer>	left shifts	 	 	Numbered	core
length of <month and="" year=""></month>	lengths	<time interval=""></time>	<month and="" year=""></month>	Plain	core
length of <rope></rope>	lengths	<integer></integer>	<rope></rope>	Plain	core
length of <string></string>	lengths	<integer></integer>	<string></string>	Plain	core
length of <time range=""></time>	lengths	<time interval=""></time>	<time range=""></time>	Plain	core
length of <year></year>	lengths	<time interval=""></time>	<year></year>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
li <string> of <html></html></string>	lis	<html></html>	<html></html>	Named	core
li <string> of <string></string></string>	lis	<html></html>	<string></string>	Named	core
li of <html></html>	lis	<html></html>	<html></html>	Plain	core
li of <string></string>	lis	<html></html>	<string></string>	Plain	core
line <integer> of <file></file></integer>	lines	<file line=""></file>	<file></file>	Numbered	<u>sol</u>
line containing <string> of <file></file></string>	lines containing	<file line=""></file>	<file></file>	Named	<u>sol</u>
line number of <file line=""></file>	line numbers	<integer></integer>	<file line=""></file>	Plain	<u>sol</u>
line of <file></file>	lines	<file line=""></file>	<file></file>	Plain	<u>sol</u>
line starting with <string> of <file></file></string>	lines starting with	<file line=""></file>	<file></file>	Named	<u>sol</u>
link <string> of <html></html></string>	links	<html></html>	<html></html>	Named	core
link <string> of <string></string></string>	links	<html></html>	<string></string>	Named	core
link count of <filesystem object=""></filesystem>	link counts	<integer></integer>	<filesystem object=""></filesystem>	Plain	<u>sol</u>
link count of <symlink></symlink>	link counts	<integer></integer>	<symlink></symlink>	Plain	<u>sol</u>
link of <html></html>	links	<html></html>	<html></html>	Plain	core
link of <string></string>	links	<html></html>	<string></string>	Plain	core
local time <string></string>	local times	<time></time>	<world></world>	NamedGlobal	core
local time zone	local time zones	<time zone=""></time>	<world></world>	PlainGlobal	core
location of <filesystem object=""></filesystem>	locations	<string></string>	<filesystem object=""></filesystem>	Plain	<u>sol</u>
location of <symlink></symlink>	locations	<string></string>	<symlink></symlink>	Plain	sol
lock string of <action lock="" state=""></action>	lock strings	<string></string>	<action lock="" state=""></action>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
locked of <action lock="" state=""></action>	lockeds	<boolean></boolean>	<action lock<br="">state></action>	Plain	<u>sol</u>
loopback of <network adapter="" interface=""></network>	loopbacks	<boolean></boolean>	<network adapter="" interface=""></network>	Plain	sol
loopback of <network adapter=""></network>	loopbacks	<boolean></boolean>	<network adapter></network 	Plain	sol
loopback of <network interface="" ip=""></network>	loopbacks	<boolean></boolean>	<network interface="" ip=""></network>	Plain	sol
low of <power level=""></power>	lows	<boolean></boolean>	<power level=""></power>	Plain	<u>sol</u>
mac address of <network adapter<br="">interface></network>	mac addresses	<string></string>	<network adapter="" interface=""></network>	Plain	sol
mac address of <network adapter=""></network>	mac addresses	<string></string>	<network adapter=""></network>	Plain	<u>sol</u>
mac address of <network ip<br="">interface></network>	mac addresses	<string></string>	<network interface="" ip=""></network>	Plain	<u>sol</u>
mac of <operating system=""></operating>	macs	<boolean></boolean>	<pre><operating system=""></operating></pre>	Plain	<u>sol</u>
main gather service	main gather services	<service></service>	<world></world>	PlainGlobal	<u>sol</u>
main processor	main processors	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	PlainGlobal	sol
major of <device file=""></device>	majors	<integer></integer>	<device file=""></device>	Plain	<u>sol</u>
march	marchs	<month></month>	<world></world>	PlainGlobal	core
march <integer></integer>	marchs	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
march <integer> of <integer></integer></integer>	marchs	<date></date>	<integer></integer>	Numbered	core
march of <integer></integer>	marchs	<month and="" year=""></month>	<integer></integer>	Plain	core
masthead of <site></site>	mastheads	<file></file>	<site></site>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
match <regular expression> of <string></string></regular 	matches	<regular expression match></regular 	<string></string>	Index <regular expression></regular 	regx
maximum of <date></date>	maxima	<date></date>	<date></date>	Plain	core
maximum of <day month="" of=""></day>	maxima	<day month="" of=""></day>	<day month="" of=""></day>	Plain	core
maximum of <day of="" year=""></day>	maxima	<day of="" year=""></day>	<day of="" year=""></day>	Plain	core
maximum of <evaluation cycle=""></evaluation>	maximums	<integer></integer>	<evaluation cycle=""></evaluation>	Plain	sol
maximum of <hertz></hertz>	maxima	<hertz></hertz>	<hertz></hertz>	Plain	core
maximum of <integer></integer>	maxima	<integer></integer>	<integer></integer>	Plain	core
maximum of <ipv4 address=""></ipv4>	maxima	<ipv4 address=""></ipv4>	<ipv4 address=""></ipv4>	Plain	core
maximum of <ipv4or6 address=""></ipv4or6>	maxima	<ipv4or6 address></ipv4or6 	<ipv4or6 address></ipv4or6 	Plain	core
maximum of <ipv6 address=""></ipv6>	maxima	<ipv6 address=""></ipv6>	<ipv6 address=""></ipv6>	Plain	core
maximum of <month and="" year=""></month>	maxima	<month and="" year=""></month>	<month and="" year=""></month>	Plain	core
maximum of <month></month>	maxima	<month></month>	<month></month>	Plain	core
maximum of <number months="" of=""></number>	maxima	<number months="" of=""></number>	<number months="" of=""></number>	Plain	core
maximum of <site list="" version=""></site>	maxima	<site list="" version=""></site>	<site list="" version=""></site>	Plain	core
maximum of <time interval=""></time>	maxima	<time interval=""></time>	<time interval=""></time>	Plain	core
maximum of <time day="" of=""></time>	maxima	<time day="" of=""></time>	<time day="" of=""></time>	Plain	core
maximum of <time></time>	maxima	<time></time>	<time></time>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
maximum of <uuid></uuid>	maxima	<uuid></uuid>	<uuid></uuid>	Plain	sol
maximum of <version></version>	maxima	<version></version>	<version></version>	Plain	core
maximum of <year></year>	maxima	<year></year>	<year></year>	Plain	core
maximum seat count of <license></license>	maximum seat counts	<integer></integer>	clicense>	Plain	sol
may	mays	<month></month>	<world></world>	PlainGlobal	core
may <integer></integer>	mays	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
may <integer> of <integer></integer></integer>	mays	<date></date>	<integer></integer>	Numbered	core
may of <integer></integer>	mays	<month and="" year=""></month>	<integer></integer>	Plain	core
member of <site group=""></site>	members	<boolean></boolean>	<site group=""></site>	Plain	sol
meta <string> of <html></html></string>	metas	<html></html>	<html></html>	Named	core
meta <string> of <string></string></string>	metas	<html></html>	<string></string>	Named	core
meta of <html></html>	metas	<html></html>	<html></html>	Plain	core
meta of <string></string>	metas	<html></html>	<string></string>	Plain	core
mhz	mhzs	<hertz></hertz>	<world></world>	PlainGlobal	core
microsecond	microseconds	<time interval=""></time>	<world></world>	PlainGlobal	core
midnight	midnights	<time day="" of=""></time>	<world></world>	PlainGlobal	core
millisecond	milliseconds	<time interval=""></time>	<world></world>	PlainGlobal	core
minimum of <date></date>	minima	<date></date>	<date></date>	Plain	core
minimum of <day month="" of=""></day>	minima	<day month="" of=""></day>	<day month="" of=""></day>	Plain	core
minimum of <day of="" year=""></day>	minima	<day of="" year=""></day>	<day of="" year=""></day>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
minimum of <hertz></hertz>	minima	<hertz></hertz>	<hertz></hertz>	Plain	core
minimum of <integer></integer>	minima	<integer></integer>	<integer></integer>	Plain	core
minimum of <ipv4 address=""></ipv4>	minima	<ipv4 address=""></ipv4>	<ipv4 address=""></ipv4>	Plain	core
minimum of <ipv4or6 address=""></ipv4or6>	minima	<ipv4or6 address></ipv4or6 	<ipv4or6 address></ipv4or6 	Plain	core
minimum of <ipv6 address=""></ipv6>	minima	<ipv6 address=""></ipv6>	<ipv6 address=""></ipv6>	Plain	core
minimum of <month and="" year=""></month>	minima	<month and="" year=""></month>	<month and="" year=""></month>	Plain	core
minimum of <month></month>	minima	<month></month>	<month></month>	Plain	core
minimum of <number months="" of=""></number>	minima	<number months="" of=""></number>	<number months="" of=""></number>	Plain	core
minimum of <site list="" version=""></site>	minima	<site list="" version=""></site>	<site list="" version=""></site>	Plain	core
minimum of <time interval=""></time>	minima	<time interval=""></time>	<time interval=""></time>	Plain	core
minimum of <time day="" of=""></time>	minima	<time day="" of=""></time>	<time day="" of=""></time>	Plain	core
minimum of <time></time>	minima	<time></time>	<time></time>	Plain	core
minimum of <uuid></uuid>	minima	<uuid></uuid>	<uuid></uuid>	Plain	<u>sol</u>
minimum of <version></version>	minima	<version></version>	<version></version>	Plain	core
minimum of <year></year>	minima	<year></year>	<year></year>	Plain	core
minor of <device file=""></device>	minors	<integer></integer>	<device file=""></device>	Plain	<u>sol</u>
minute	minutes	<time interval=""></time>	<world></world>	PlainGlobal	core
minute_of_hour of <time day="" of="" with<br="">time zone></time>	minutes_of_hou r	<integer></integer>	<time day="" of="" time="" with="" zone=""></time>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
minute_of_hour of <time day="" of=""></time>	minutes_of_hou r	<integer></integer>	<time day="" of=""></time>	Plain	core
mode of <filesystem object=""></filesystem>	modes	<mode></mode>	<filesystem object=""></filesystem>	Plain	sol
model of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	models	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
modification time of <filesystem object=""></filesystem>	modification times	<time></time>	<filesystem object=""></filesystem>	Plain	sol
modification time of <symlink></symlink>	modification times	<time></time>	<symlink></symlink>	Plain	sol
module <string></string>	modules	<module></module>	<world></world>	NamedGlobal	core
monday	mondays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
month	months	<number months="" of=""></number>	<world></world>	PlainGlobal	core
month <integer></integer>	months	<month></month>	<world></world>	NumberedGlobal	core
month <string></string>	months	<month></month>	<world></world>	NamedGlobal	core
month of <date></date>	months	<month></month>	<date></date>	Plain	core
month of <day of="" year=""></day>	months	<month></month>	<day of="" year=""></day>	Plain	core
month of <month and="" year=""></month>	months	<month></month>	<month and="" year=""></month>	Plain	core
month_and_year of <date></date>	months_and_ye ars	<month and="" year=""></month>	<date></date>	Plain	core
most significant one bit of <bit set=""></bit>	most significant one bits	<integer></integer>	 	Plain	core
multicast support of <network adapter<br="">interface></network>	multicast supports	<boolean></boolean>	<network adapter="" interface=""></network>	Plain	<u>sol</u>
multicast support of <network adapter=""></network>	multicast supports	<boolean></boolean>	<network adapter=""></network>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
multicast support of <network ip<br="">interface></network>	multicast supports	<boolean></boolean>	<network interface="" ip=""></network>	Plain	sol
multiplicity of <date multiplicity="" with=""></date>	multiplicities	<integer></integer>	<date multiplicity="" with=""></date>	Plain	core
multiplicity of <day month="" multiplicity="" of="" with=""></day>	multiplicities	<integer></integer>	<day month="" multiplicity="" of="" with=""></day>	Plain	core
multiplicity of <day multiplicity="" of="" week="" with=""></day>	multiplicities	<integer></integer>	<day multiplicity="" of="" week="" with=""></day>	Plain	core
multiplicity of <day multiplicity="" of="" with="" year=""></day>	multiplicities	<integer></integer>	<day multiplicity="" of="" with="" year=""></day>	Plain	core
multiplicity of <hertz multiplicity="" with=""></hertz>	multiplicities	<integer></integer>	<hertz multiplicity="" with=""></hertz>	Plain	core
multiplicity of <integer with<br="">multiplicity></integer>	multiplicities	<integer></integer>	<integer multiplicity="" with=""></integer>	Plain	core
multiplicity of <ipv4 address with multiplicity></ipv4 	multiplicities	<integer></integer>	<ipv4 address="" multiplicity="" with=""></ipv4>	Plain	core
multiplicity of <ipv4or6 address<br="">with multiplicity></ipv4or6>	multiplicities	<integer></integer>	<ipv4or6 address="" multiplicity="" with=""></ipv4or6>	Plain	core
multiplicity of <ipv6 address with multiplicity></ipv6 	multiplicities	<integer></integer>	<ipv6 address<br="">with multiplicity></ipv6>	Plain	core
multiplicity of <month and year with multiplicity></month 	multiplicities	<integer></integer>	<month and="" multiplicity="" with="" year=""></month>	Plain	core
multiplicity of <month multiplicity="" with=""></month>	multiplicities	<integer></integer>	<month multiplicity="" with=""></month>	Plain	core
multiplicity of <number months<br="" of="">with multiplicity></number>	multiplicities	<integer></integer>	<number months="" multiplicity="" of="" with=""></number>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
multiplicity of <site version list with multiplicity></site 	multiplicities	<integer></integer>	<site list="" multiplicity="" version="" with=""></site>	Plain	core
multiplicity of <string multiplicity="" with=""></string>	multiplicities	<integer></integer>	<string multiplicity="" with=""></string>	Plain	core
multiplicity of <time interval with multiplicity></time 	multiplicities	<integer></integer>	<time interval<br="">with multiplicity></time>	Plain	core
multiplicity of <time of day with multiplicity></time 	multiplicities	<integer></integer>	<time day="" multiplicity="" of="" with=""></time>	Plain	core
multiplicity of <time of day with time zone with multiplicity></time 	multiplicities	<integer></integer>	<time day="" of="" with<br="">time zone with multiplicity></time>	Plain	core
multiplicity of <time multiplicity="" range="" with=""></time>	multiplicities	<integer></integer>	<time multiplicity="" range="" with=""></time>	Plain	core
multiplicity of <time multiplicity="" with=""></time>	multiplicities	<integer></integer>	<time multiplicity="" with=""></time>	Plain	core
multiplicity of <time zone with multiplicity></time 	multiplicities	<integer></integer>	<time multiplicity="" with="" zone=""></time>	Plain	core
multiplicity of <uuid multiplicity="" with=""></uuid>	multiplicities	<integer></integer>	<uuid multiplicity="" with=""></uuid>	Plain	sol
multiplicity of <version with<br="">multiplicity></version>	multiplicities	<integer></integer>	<version multiplicity="" with=""></version>	Plain	core
multiplicity of <year multiplicity="" with=""></year>	multiplicities	<integer></integer>	<year multiplicity="" with=""></year>	Plain	core
multivalued of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	multivalueds	<boolean></boolean>	<pre><pre><pre><pre>property></pre></pre></pre></pre>	Plain	core
name of <application instance="" summary="" usage=""></application>	names	<string></string>	<application instance="" summary="" usage=""></application>	Plain	sol
name of <application summary="" usage=""></application>	names	<string></string>	<application summary="" usage=""></application>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
name of <bes product=""></bes>	names	<string></string>	 	Plain	sol
name of operator>	names	<string></string>	 operator>	Plain	core
name of <cast></cast>	names	<string></string>	<cast></cast>	Plain	core
name of <environment variable></environment 	names	<string></string>	<environment variable=""></environment>	Plain	sol
name of <filesystem object=""></filesystem>	names	<string></string>	<filesystem object=""></filesystem>	Plain	sol
name of <filesystem></filesystem>	names	<string></string>	<filesystem></filesystem>	Plain	sol
name of <fixlet_header></fixlet_header>	names	<string></string>	<fixlet_header></fixlet_header>	Plain	sol
name of <network adapter=""></network>	names	<string></string>	<network adapter=""></network>	Plain	sol
name of <network interface="" ip=""></network>	names	<string></string>	<network interface="" ip=""></network>	Plain	sol
name of <operating system=""></operating>	names	<string></string>	<pre><operating system=""></operating></pre>	Plain	sol
name of <pkginfo></pkginfo>	names	<string></string>	<pkginfo></pkginfo>	Plain	sol
name of <pre><pre>cess></pre></pre>	names	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
name of <selected server=""></selected>	names	<string></string>	<selected server=""></selected>	Plain	sol
name of <setting></setting>	names	<string></string>	<setting></setting>	Plain	sol
name of <site></site>	names	<string></string>	<site></site>	Plain	sol
name of <symlink></symlink>	names	<string></string>	<symlink></symlink>	Plain	sol
name of <type></type>	names	<string></string>	<type></type>	Plain	core
name of <unary operator=""></unary>	names	<string></string>	<unary operator=""></unary>	Plain	core
name of <user></user>	names	<string></string>	<user></user>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
name of <zone network interface></zone 	names	<string></string>	<zone interface="" network=""></zone>	Plain	<u>sol</u>
name of <zone></zone>	names	<string></string>	<zone></zone>	Plain	<u>sol</u>
network	networks	<network></network>	<world></world>	PlainGlobal	<u>sol</u>
network interface <string> of <zone></zone></string>	network interfaces	<zone interface="" network=""></zone>	<zone></zone>	Named	<u>sol</u>
network interface of <zone></zone>	network interfaces	<zone interface="" network=""></zone>	<zone></zone>	Plain	sol
next line of <file line=""></file>	next lines	<file line=""></file>	<file line=""></file>	Plain	<u>sol</u>
non windows server count of <best product=""></best>	non windows server counts	<integer></integer>	<bes product=""></bes>	Plain	<u>sol</u>
noon	noons	<time day="" of=""></time>	<world></world>	PlainGlobal	core
normal of <power level=""></power>	normals	<boolean></boolean>	<power level=""></power>	Plain	sol
november	novembers	<month></month>	<world></world>	PlainGlobal	core
november <integer></integer>	novembers	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
november <integer> of <integer></integer></integer>	novembers	<date></date>	<integer></integer>	Numbered	core
november of <integer></integer>	novembers	<month and="" year=""></month>	<integer></integer>	Plain	core
now	nows	<time></time>	<world></world>	PlainGlobal	core
numeric value of <string></string>	numeric values	<integer></integer>	<string></string>	Plain	core
october	octobers	<month></month>	<world></world>	PlainGlobal	core
october <integer></integer>	octobers	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
october <integer> of <integer></integer></integer>	octobers	<date></date>	<integer></integer>	Numbered	core
october of <integer></integer>	octobers	<month and="" year=""></month>	<integer></integer>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
offer accepted of <action></action>	offer accepteds	<boolean></boolean>	<action></action>	Plain	sol
offer of <action></action>	offers	<boolean></boolean>	<action></action>	Plain	sol
ol <string> of <html></html></string>	ols	<html></html>	<html></html>	Named	core
ol <string> of <string></string></string>	ols	<html></html>	<string></string>	Named	core
ol of <html></html>	ols	<html></html>	<html></html>	Plain	core
ol of <string></string>	ols	<html></html>	<string></string>	Plain	core
one bit of <bit set=""></bit>	one bits	<integer></integer>	 	Plain	core
operand type of <cast></cast>	operand types	<type></type>	<cast></cast>	Plain	core
operand type of <unary operator=""></unary>	operand types	<type></type>	<unary operator=""></unary>	Plain	core
operating system	operating systems	<pre><operating system=""></operating></pre>	<world></world>	PlainGlobal	sol
ordered list <string> of <html></html></string>	ordered lists	<html></html>	<html></html>	Named	core
ordered list <string> of <string></string></string>	ordered lists	<html></html>	<string></string>	Named	core
ordered list of <html></html>	ordered lists	<html></html>	<html></html>	Plain	core
ordered list of <string></string>	ordered lists	<html></html>	<string></string>	Plain	core
organization of <license></license>	organizations	<string></string>		Plain	sol
origin fixlet id of <action></action>	origin fixlet ids	<integer></integer>	<action></action>	Plain	sol
other execute of <filesystem object=""></filesystem>	other executes	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
other mask of <filesystem object=""></filesystem>	other masks	<integer></integer>	<filesystem object=""></filesystem>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
other mask of <mode></mode>	other masks	<mode_mask></mode_mask>	<mode></mode>	Plain	sol
other read of <filesystem object=""></filesystem>	other reads	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
other write of <filesystem object=""></filesystem>	other writes	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
p <string> of <html></html></string>	ps	<html></html>	<html></html>	Named	core
p <string> of <string></string></string>	ps	<html></html>	<string></string>	Named	core
p of <html></html>	ps	<html></html>	<html></html>	Plain	core
p of <string></string>	ps	<html></html>	<string></string>	Plain	core
param <string> of <pkginfo></pkginfo></string>	params	<string></string>	<pkginfo></pkginfo>	Named	sol
parameter <string></string>	parameters	<string></string>	<world></world>	NamedGlobal	sol
parameter <string> of <action></action></string>	parameters	<string></string>	<action></action>	Named	sol
parent folder of <filesystem object=""></filesystem>	parent folders	<folder></folder>	<filesystem object=""></filesystem>	Plain	sol
parent folder of <symlink></symlink>	parent folders	<folder></folder>	<symlink></symlink>	Plain	sol
parent of <type></type>	parents	<type></type>	<type></type>	Plain	core
parenthesized part <integer> of <regular expression match></regular </integer>	parenthesized parts	<substring></substring>	<regular expression match></regular 	Numbered	regx
parenthesized part of <regular expression<br="">match></regular>	parenthesized parts	<substring></substring>	<regular expression match></regular 	Plain	regx
patch <string> of <pkgdb></pkgdb></string>	patches	<patch></patch>	<pkgdb></pkgdb>	Named	sol
patch <string> of <pkginfo></pkginfo></string>	patches	<patch></patch>	<pkginfo></pkginfo>	Named	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
patch id <string> of <pkgdb></pkgdb></string>	patch ids	<string></string>	<pkgdb></pkgdb>	Named	sol
patch id <string> of <pkginfo></pkginfo></string>	patch ids	<string></string>	<pkginfo></pkginfo>	Named	sol
patch id of <pkgdb></pkgdb>	patch ids	<string></string>	<pkgdb></pkgdb>	Plain	sol
patch id of <pkginfo></pkginfo>	patch ids	<string></string>	<pkginfo></pkginfo>	Plain	sol
patch of <pkgdb></pkgdb>	patches	<patch></patch>	<pkgdb></pkgdb>	Plain	sol
patch of <pkginfo></pkginfo>	patches	<patch></patch>	<pkginfo></pkginfo>	Plain	sol
path of <zone></zone>	paths	<string></string>	<zone></zone>	Plain	sol
pathname of <filesystem object=""></filesystem>	pathnames	<string></string>	<filesystem object=""></filesystem>	Plain	sol
pathname of <symlink></symlink>	pathnames	<string></string>	<symlink></symlink>	Plain	sol
pending login	pending logins	<boolean></boolean>	<world></world>	PlainGlobal	sol
pending login of <action></action>	pending logins	<boolean></boolean>	<action></action>	Plain	sol
pending of <action></action>	pendings	<boolean></boolean>	<action></action>	Plain	sol
pending restart	pending restarts	<boolean></boolean>	<world></world>	PlainGlobal	sol
pending restart <string></string>	pending restarts	<boolean></boolean>	<world></world>	NamedGlobal	sol
pending restart name	pending restart names	<string></string>	<world></world>	PlainGlobal	sol
pending restart of <action></action>	pending restarts	<boolean></boolean>	<action></action>	Plain	sol
pending time of <action></action>	pending times	<time></time>	<action></action>	Plain	sol
physical memory cap of <zone></zone>	physical memory caps	<integer></integer>	<zone></zone>	Plain	sol
pid of <pre><pre>cess></pre></pre>	pids	<integer></integer>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
pkgdb	pkgdbs	<pkgdb></pkgdb>	<world></world>	PlainGlobal	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
pkginfo <string> of <pkgdb></pkgdb></string>	pkginfos	<pkginfo></pkginfo>	<pkgdb></pkgdb>	Named	sol
pkginfo of <pkgdb></pkgdb>	pkginfos	<pkginfo></pkginfo>	<pkgdb></pkgdb>	Plain	sol
pkginst of <pkginfo></pkginfo>	pkginsts	<string></string>	<pkginfo></pkginfo>	Plain	sol
platform id of <language></language>	platform ids	<string></string>	<language></language>	Plain	sol
plugged of <power level=""></power>	pluggeds	<boolean></boolean>	<power level=""></power>	Plain	sol
plural name of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	plural names	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	core
point to point of <network adapter<br="">interface></network>	point to points	<boolean></boolean>	<network adapter="" interface=""></network>	Plain	sol
point to point of <network ip<br="">interface></network>	point to points	<boolean></boolean>	<network interface="" ip=""></network>	Plain	<u>sol</u>
port number of <selected server=""></selected>	port numbers	<integer></integer>	<selected server=""></selected>	Plain	<u>sol</u>
position <integer> of <string></string></integer>	positions	<string position=""></string>	<string></string>	Numbered	core
position of <string></string>	positions	<string position=""></string>	<string></string>	Plain	core
power level	power levels	<power level=""></power>	<world></world>	PlainGlobal	sol
pre <string> of <html></html></string>	pres	<html></html>	<html></html>	Named	core
pre <string> of <string></string></string>	pres	<html></html>	<string></string>	Named	core
pre of <html></html>	pres	<html></html>	<html></html>	Plain	core
pre of <string></string>	pres	<html></html>	<string></string>	Plain	core
preceding text of <string position=""></string>	preceding texts	<substring></substring>	<string position=""></string>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
preceding text of <substring></substring>	preceding texts	<substring></substring>	<substring></substring>	Plain	core
previous line of <file line=""></file>	previous lines	<file line=""></file>	<file line=""></file>	Plain	sol
primary language of <language></language>	primary languages	<pri><primary language=""></primary></pri>	<language></language>	Plain	sol
priority of <selected server=""></selected>	priorities	<integer></integer>	<selected server=""></selected>	Plain	sol
process	processes	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	PlainGlobal	sol
process <integer></integer>	processes	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	NumberedGlobal	<u>sol</u>
process <string></string>	processes	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	NamedGlobal	<u>sol</u>
process id of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	process ids	<integer></integer>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
processor	processors	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	PlainGlobal	sol
processor <integer></integer>	processors	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	NumberedGlobal	sol
product of <integer></integer>	products	<integer></integer>	<integer></integer>	Plain	core
product of <license></license>	products	<bes product=""></bes>	cense>	Plain	sol
property <string></string>	properties	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	NamedGlobal	core
property <string> of <type></type></string>	properties	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<type></type>	Named	core
property of <type></type>	properties	<pre><pre><pre><pre>property></pre></pre></pre></pre>	<type></type>	Plain	core
property returning <type></type>	properties returning	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<world></world>	Index <type>Glob al</type>	core
property returning <type> of <type></type></type>	properties returning	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	<type></type>	Index <type></type>	core
q <string> of <html></html></string>	qs	<html></html>	<html></html>	Named	core
q <string> of <string></string></string>	qs	<html></html>	<string></string>	Named	core
q of <html></html>	qs	<html></html>	<html></html>	Plain	core
q of <string></string>	qs	<html></html>	<string></string>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
ram	rams	<ram></ram>	<world></world>	PlainGlobal	sol
random access memory	random access memories	<ram></ram>	<world></world>	PlainGlobal	sol
range after <time> of <time range=""></time></time>	ranges after	<time range=""></time>	<time range=""></time>	Index <time></time>	core
range before <time> of <time range=""></time></time>	ranges before	<time range=""></time>	<time range=""></time>	Index <time></time>	core
read of <mode_mask></mode_mask>	reads	<boolean></boolean>	<mode_mask></mode_mask>	Plain	<u>sol</u>
recent application	recent applications	<application></application>	<world></world>	PlainGlobal	<u>sol</u>
recent application <string></string>	recent applications	<application></application>	<world></world>	NamedGlobal	<u>sol</u>
regex <string></string>	regexes	<regular expression></regular 	<world></world>	NamedGlobal	regx
regex escape of <string></string>	regex escapes	<string></string>	<string></string>	Plain	regx
registrar number of <license></license>	registrar numbers	<integer></integer>		Plain	sol
registration address of <client></client>	registration addresses	<ipv4or6 address></ipv4or6 	<cli>ent></cli>	Plain	<u>sol</u>
registration cidr address of <client></client>	registration cidr addresses	<string></string>	<cli>ent></cli>	Plain	<u>sol</u>
registration mac address of <client></client>	registration mac addresses	<string></string>	<cli><cli><cli><cli><</cli></cli></cli></cli>	Plain	sol
registration subnet address of <client></client>	registration subnet addresses	<ipv4or6 address></ipv4or6 	<cli>ent></cli>	Plain	sol
regular expression <string></string>	regular expressions	<regular expression=""></regular>	<world></world>	NamedGlobal	regx
relay service	relay services	<service></service>	<world></world>	PlainGlobal	sol
release of <operating system=""></operating>	releases	<string></string>	<pre><operating system=""></operating></pre>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
relevance of <fixlet></fixlet>	relevances	<boolean></boolean>	<fixlet></fixlet>	Plain	sol
relevant fixlet of <site></site>	relevant fixlets	<fixlet></fixlet>	<site></site>	Plain	sol
relevant offer action of <site></site>	relevant offer actions	<action></action>	<site></site>	Plain	sol
result type of operator>	result types	<type></type>	 	Plain	core
result type of <cast></cast>	result types	<type></type>	<cast></cast>	Plain	core
result type of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	result types	<type></type>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	core
result type of <unary operator=""></unary>	result types	<type></type>	<unary operator=""></unary>	Plain	core
revision <string> of <patch></patch></string>	revisions	<string></string>	<patch></patch>	Named	sol
revision of <patch></patch>	revisions	<string></string>	<patch></patch>	Plain	sol
right operand type of 	right operand types	<type></type>	 operator>	Plain	core
right shift <integer> of <bit set=""></bit></integer>	right shifts	 	 	Numbered	core
root folder	root folders	<folder></folder>	<world></world>	PlainGlobal	sol
root server	root servers	<root server=""></root>	<world></world>	PlainGlobal	sol
rope <string></string>	ropes	<rope></rope>	<world></world>	NamedGlobal	core
runlevel	runlevels	<runlevel></runlevel>	<world></world>	PlainGlobal	sol
running application	running applications	<application></application>	<world></world>	PlainGlobal	sol
running application <string></string>	running applications	<application></application>	<world></world>	NamedGlobal	sol
running of <application usage<br="">summary></application>	runnings	<boolean></boolean>	<application summary="" usage=""></application>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
running service <string></string>	running services	<service></service>	<world></world>	NamedGlobal	<u>sol</u>
samp <string> of <html></html></string>	samps	<html></html>	<html></html>	Named	core
samp <string> of <string></string></string>	samps	<html></html>	<string></string>	Named	core
samp of <html></html>	samps	<html></html>	<html></html>	Plain	core
samp of <string></string>	samps	<html></html>	<string></string>	Plain	core
saturday	saturdays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
scheduling class of <zone></zone>	scheduling classes	<string></string>	<zone></zone>	Plain	sol
seat count state of	seat count states	<string></string>	clicense>	Plain	sol
seat of <license></license>	seats	<integer></integer>		Plain	<u>sol</u>
second	seconds	<time interval=""></time>	<world></world>	PlainGlobal	core
second_of_minute of <time day="" of="" with<br="">time zone></time>	seconds_of_min ute	<integer></integer>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
second_of_minute of <time day="" of=""></time>	seconds_of_min ute	<integer></integer>	<time day="" of=""></time>	Plain	core
section <string> of <file></file></string>	sections	<file section=""></file>	<file></file>	Named	<u>sol</u>
selected server	selected servers	<selected server=""></selected>	<world></world>	PlainGlobal	<u>sol</u>
september	septembers	<month></month>	<world></world>	PlainGlobal	core
september <integer></integer>	septembers	<day of="" year=""></day>	<world></world>	NumberedGlobal	core
september <integer> of <integer></integer></integer>	septembers	<date></date>	<integer></integer>	Numbered	core
september of <integer></integer>	septembers	<month and="" year=""></month>	<integer></integer>	Plain	core
service <string></string>	services	<service></service>	<world></world>	NamedGlobal	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
set of <integer></integer>	sets	<integer set=""></integer>	<integer></integer>	Plain	core
set of <string></string>	sets	<string set=""></string>	<string></string>	Plain	core
setgid of <filesystem object=""></filesystem>	setgids	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
setgid of <mode></mode>	setgids	<boolean></boolean>	<mode></mode>	Plain	sol
setting <string> of <client></client></string>	settings	<setting></setting>	<cli>ent></cli>	Named	sol
setting <string> of <site></site></string>	settings	<setting></setting>	<site></site>	Named	sol
setting of <client></client>	settings	<setting></setting>	<cli>ent></cli>	Plain	sol
setting of <site></site>	settings	<setting></setting>	<site></site>	Plain	sol
setuid of <filesystem object=""></filesystem>	setuids	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
setuid of <mode></mode>	setuids	<boolean></boolean>	<mode></mode>	Plain	sol
sha1 of <file></file>	sha1s	<string></string>	<file></file>	Plain	sol
sha1 of <x509 certificate></x509 	sha1s	<string></string>	<x509 certificate></x509 	Plain	core
significant digits <integer> of <hertz></hertz></integer>	significant digitss	<hertz></hertz>	<hertz></hertz>	Numbered	core
significant digits <integer> of <integer></integer></integer>	significant digitss	<integer></integer>	<integer></integer>	Numbered	core
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><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	core
site	sites	<site></site>	<world></world>	PlainGlobal	sol
site <string></string>	sites	<site></site>	<world></world>	NamedGlobal	sol
site number of cense>	site numbers	<integer></integer>		Plain	sol
site of <fixlet></fixlet>	sites	<site></site>	<fixlet></fixlet>	Plain	sol
site tag of <site></site>	site tags	<string></string>	<site></site>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
site url of <bes product=""></bes>	site urls	<string></string>	<bes product=""></bes>	Plain	sol
site version list <string></string>	site version lists	<site list="" version=""></site>	<world></world>	NamedGlobal	core
site version list of <site></site>	site version lists	<site list="" version=""></site>	<site></site>	Plain	sol
size of <application instance="" summary="" usage=""></application>	sizes	<integer></integer>	<application instance="" summary="" usage=""></application>	Plain	sol
size of <file></file>	sizes	<integer></integer>	<file></file>	Plain	sol
size of <filesystem></filesystem>	sizes	<integer></integer>	<filesystem></filesystem>	Plain	<u>sol</u>
size of <integer set=""></integer>	sizes	<integer></integer>	<integer set=""></integer>	Plain	core
size of <ram></ram>	sizes	<integer></integer>	<ram></ram>	Plain	sol
size of <string set=""></string>	sizes	<integer></integer>	<string set=""></string>	Plain	core
size of <type></type>	sizes	<integer></integer>	<type></type>	Plain	core
small <string> of <html></html></string>	smalls	<html></html>	<html></html>	Named	core
small <string> of <string></string></string>	smalls	<html></html>	<string></string>	Named	core
small of <html></html>	smalls	<html></html>	<html></html>	Plain	core
small of <string></string>	smalls	<html></html>	<string></string>	Plain	core
socket file <filesystem object=""></filesystem>	socket files	<socket file=""></socket>	<world></world>	Index <filesystem object>Global</filesystem 	<u>sol</u>
socket file <string></string>	socket files	<socket file=""></socket>	<world></world>	NamedGlobal	sol
socket file <string> of <folder></folder></string>	socket files	<socket file=""></socket>	<folder></folder>	Named	sol
socket file <symlink></symlink>	socket files	<socket file=""></socket>	<world></world>	Index <symlink>G lobal</symlink>	sol
socket file of <folder></folder>	socket files	<socket file=""></socket>	<folder></folder>	Plain	<u>sol</u>

Key Phrase	Plural	Creates a	From a	Form	Ref
span <string> of <html></html></string>	spans	<html></html>	<html></html>	Named	core
span <string> of <string></string></string>	spans	<html></html>	<string></string>	Named	core
span of <html></html>	spans	<html></html>	<html></html>	Plain	core
span of <string></string>	spans	<html></html>	<string></string>	Plain	core
speed of <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	speeds	<hertz></hertz>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
start date of cense>	start dates	<time></time>		Plain	sol
start of <substring></substring>	starts	<string position=""></string>	<substring></substring>	Plain	core
start of <time range=""></time>	starts	<time></time>	<time range=""></time>	Plain	core
state of <pre>cessor></pre>	states	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	sol
state of <service></service>	states	<string></string>	<service></service>	Plain	sol
status of <action></action>	statuss	<string></string>	<action></action>	Plain	sol
sticky of <mode></mode>	stickies	<boolean></boolean>	<mode></mode>	Plain	sol
string <string></string>	strings	<string></string>	<world></world>	NamedGlobal	core
string version of <application usage<br="">summary instance></application>	string versions	<string></string>	<application instance="" summary="" usage=""></application>	Plain	sol
strong <string> of <html></html></string>	strongs	<html></html>	<html></html>	Named	core
strong <string> of <string></string></string>	strongs	<html></html>	<string></string>	Named	core
strong of <html></html>	strongs	<html></html>	<html></html>	Plain	core
strong of <string></string>	strongs	<html></html>	<string></string>	Plain	core
sub <string> of <html></html></string>	subs	<html></html>	<html></html>	Named	core
sub <string> of <string></string></string>	subs	<html></html>	<string></string>	Named	core



Key Phrase	Plural	Creates a	From a	Form	Ref
sub of <html></html>	subs	<html></html>	<html></html>	Plain	core
sub of <string></string>	subs	<html></html>	<string></string>	Plain	core
subnet address of <network adapter<br="">interface></network>	subnet addresses	<ipv4or6 address></ipv4or6 	<network adapter="" interface=""></network>	Plain	sol
subnet address of <network adapter=""></network>	subnet addresses	<ipv4 address=""></ipv4>	<network adapter=""></network>	Plain	sol
subnet address of <network ip<br="">interface></network>	subnet addresses	<ipv4 address=""></ipv4>	<network interface="" ip=""></network>	Plain	sol
subnet mask of <network adapter<br="">interface></network>	subnet masks	<ipv4or6 address></ipv4or6 	<network adapter="" interface=""></network>	Plain	sol
subnet mask of <network adapter=""></network>	subnet masks	<ipv4 address=""></ipv4>	<network adapter=""></network>	Plain	sol
subnet mask of <network ip<br="">interface></network>	subnet masks	<ipv4 address=""></ipv4>	<network interface="" ip=""></network>	Plain	sol
subscribe time of <site></site>	subscribe times	<time></time>	<site></site>	Plain	<u>sol</u>
substring <(integer, integer)> of <string></string>	substrings	<substring></substring>	<string></string>	Index<(integer, integer)>	core
substring <string> of <string></string></string>	substrings	<substring></substring>	<string></string>	Named	core
substring after <string> of <string></string></string>	substrings after	<substring></substring>	<string></string>	Named	core
substring before <string> of <string></string></string>	substrings before	<substring></substring>	<string></string>	Named	core
substring between <string> of <string></string></string>	substrings between	<substring></substring>	<string></string>	Named	core
substring separated by <string> of <string></string></string>	substrings separated by	<substring></substring>	<string></string>	Named	core
sum of <integer></integer>	sums	<integer></integer>	<integer></integer>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
sum of <time interval></time 	sums	<time interval=""></time>	<time interval=""></time>	Plain	core
sunday	sundays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
sup <string> of <html></html></string>	sups	<html></html>	<html></html>	Named	core
sup <string> of <string></string></string>	sups	<html></html>	<string></string>	Named	core
sup of <html></html>	sups	<html></html>	<html></html>	Plain	core
sup of <string></string>	sups	<html></html>	<string></string>	Plain	core
symbol of operator>	symbols	<string></string>	 operator>	Plain	core
symbol of <unary operator=""></unary>	symbols	<string></string>	<unary operator=""></unary>	Plain	core
symlink <filesystem object=""></filesystem>	symlinks	<symlink></symlink>	<world></world>	Index <filesystem object>Global</filesystem 	<u>sol</u>
symlink <string></string>	symlinks	<symlink></symlink>	<world></world>	NamedGlobal	sol
symlink <string> of <folder></folder></string>	symlinks	<symlink></symlink>	<folder></folder>	Named	<u>sol</u>
symlink <symlink></symlink>	symlinks	<symlink></symlink>	<world></world>	Index <symlink>G lobal</symlink>	<u>sol</u>
symlink of <folder></folder>	symlinks	<symlink></symlink>	<folder></folder>	Plain	sol
system language	system languages	<string></string>	<world></world>	PlainGlobal	<u>sol</u>
system locale	system locales	<language></language>	<world></world>	PlainGlobal	<u>sol</u>
system ui language	system ui languages	<language></language>	<world></world>	PlainGlobal	<u>sol</u>
table <string> of <html></html></string>	tables	<html></html>	<html></html>	Named	core
table <string> of <string></string></string>	tables	<html></html>	<string></string>	Named	core
table of <html></html>	tables	<html></html>	<html></html>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
table of <string></string>	tables	<html></html>	<string></string>	Plain	core
tbody <string> of <html></html></string>	tbodys	<html></html>	<html></html>	Named	core
tbody <string> of <string></string></string>	tbodys	<html></html>	<string></string>	Named	core
tbody of <html></html>	tbodys	<html></html>	<html></html>	Plain	core
tbody of <string></string>	tbodys	<html></html>	<string></string>	Plain	core
td <string> of <html></html></string>	tds	<html></html>	<html></html>	Named	core
td <string> of <string></string></string>	tds	<html></html>	<string></string>	Named	core
td of <html></html>	tds	<html></html>	<html></html>	Plain	core
td of <string></string>	tds	<html></html>	<string></string>	Plain	core
tfoot <string> of <html></html></string>	tfoots	<html></html>	<html></html>	Named	core
tfoot <string> of <string></string></string>	tfoots	<html></html>	<string></string>	Named	core
tfoot of <html></html>	tfoots	<html></html>	<html></html>	Plain	core
tfoot of <string></string>	tfoots	<html></html>	<string></string>	Plain	core
th <string> of <html></html></string>	ths	<html></html>	<html></html>	Named	core
th <string> of <string></string></string>	ths	<html></html>	<string></string>	Named	core
th of <html></html>	ths	<html></html>	<html></html>	Plain	core
th of <string></string>	ths	<html></html>	<string></string>	Plain	core
thead <string> of <html></html></string>	theads	<html></html>	<html></html>	Named	core
thead <string> of <string></string></string>	theads	<html></html>	<string></string>	Named	core
thead of <html></html>	theads	<html></html>	<html></html>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
thead of <string></string>	theads	<html></html>	<string></string>	Plain	core
thursday	thursdays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
time <string></string>	times	<time></time>	<world></world>	NamedGlobal	core
time <time zone=""> of <time></time></time>	times	<time day="" of="" time="" with="" zone=""></time>	<time></time>	Index <time zone></time 	core
time interval <string></string>	time intervals	<time interval=""></time>	<world></world>	NamedGlobal	core
time of <time day="" of="" time="" with="" zone=""></time>	times	<time day="" of=""></time>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
time zone <string></string>	time zones	<time zone=""></time>	<world></world>	NamedGlobal	core
time_of_day <string></string>	times_of_day	<time day="" of=""></time>	<world></world>	NamedGlobal	core
title <string> of <html></html></string>	titles	<html></html>	<html></html>	Named	core
title <string> of <string></string></string>	titles	<html></html>	<string></string>	Named	core
title of <html></html>	titles	<html></html>	<html></html>	Plain	core
title of <string></string>	titles	<html></html>	<string></string>	Plain	core
total amount of <ram></ram>	total amounts	<integer></integer>	<ram></ram>	Plain	sol
total duration of <application usage<br="">summary instance></application>	total durations	<time interval=""></time>	<application instance="" summary="" usage=""></application>	Plain	sol
total duration of <application usage<br="">summary></application>	total durations	<time interval=""></time>	<application summary="" usage=""></application>	Plain	sol
total run count of <application usage<br="">summary instance></application>	total run counts	<integer></integer>	<application instance="" summary="" usage=""></application>	Plain	sol
total run count of <application usage<br="">summary></application>	total run counts	<integer></integer>	<application summary="" usage=""></application>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
total size of <download storage<br="">folder></download>	total sizes	<integer></integer>	<download storage folder></download 	Plain	sol
total space of <filesystem></filesystem>	total spaces	<integer></integer>	<filesystem></filesystem>	Plain	sol
tr <string> of <html></html></string>	trs	<html></html>	<html></html>	Named	core
tr <string> of <string></string></string>	trs	<html></html>	<string></string>	Named	core
tr of <html></html>	trs	<html></html>	<html></html>	Plain	core
tr of <string></string>	trs	<html></html>	<string></string>	Plain	core
true	trues	<boolean></boolean>	<world></world>	PlainGlobal	core
tt <string> of <html></html></string>	tts	<html></html>	<html></html>	Named	core
tt <string> of <string></string></string>	tts	<html></html>	<string></string>	Named	core
tt of <html></html>	tts	<html></html>	<html></html>	Plain	core
tt of <string></string>	tts	<html></html>	<string></string>	Plain	core
tty of <user></user>	ttys	<string></string>	<user></user>	Plain	sol
tuesday	tuesdays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
tuple string item <integer> of <string></string></integer>	tuple string items	<string></string>	<string></string>	Numbered	core
tuple string item of <string></string>	tuple string items	<string></string>	<string></string>	Plain	core
two digit hour of <time day="" of="" with<br="">time zone></time>	two digit hours	<string></string>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
two digit hour of <time day="" of=""></time>	two digit hours	<string></string>	<time day="" of=""></time>	Plain	core
two digit minute of <time day="" of="" with<br="">time zone></time>	two digit minutes	<string></string>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
two digit minute of <time day="" of=""></time>	two digit minutes	<string></string>	<time day="" of=""></time>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
two digit second of <time day="" of="" with<br="">time zone></time>	two digit seconds	<string></string>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
two digit second of <time day="" of=""></time>	two digit seconds	<string></string>	<time day="" of=""></time>	Plain	core
type of <filesystem></filesystem>	types	<string></string>	<filesystem></filesystem>	Plain	<u>sol</u>
type of <license></license>	types	<string></string>	clicense>	Plain	<u>sol</u>
type of <pre><pre>cessor></pre></pre>	types	<string></string>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<u>sol</u>
type of <site></site>	types	<string></string>	<site></site>	Plain	<u>sol</u>
uid of <filesystem object=""></filesystem>	uids	<integer></integer>	<filesystem object=""></filesystem>	Plain	<u>sol</u>
uid of <symlink></symlink>	uids	<integer></integer>	<symlink></symlink>	Plain	sol
ul <string> of <html></html></string>	uls	<html></html>	<html></html>	Named	core
ul <string> of <string></string></string>	uls	<html></html>	<string></string>	Named	core
ul of <html></html>	uls	<html></html>	<html></html>	Plain	core
ul of <string></string>	uls	<html></html>	<string></string>	Plain	core
unary operator <string></string>	unary operators	<unary operator=""></unary>	<world></world>	NamedGlobal	core
unary operator returning <type></type>	unary operators returning	<unary operator=""></unary>	<world></world>	Index <type>Glob al</type>	core
union of <integer set=""></integer>	unions	<integer set=""></integer>	<integer set=""></integer>	Plain	core
union of <string set=""></string>	unions	<string set=""></string>	<string set=""></string>	Plain	core
unique value of <date></date>	unique values	<date multiplicity="" with=""></date>	<date></date>	Plain	core
unique value of <day month="" of=""></day>	unique values	<day month="" multiplicity="" of="" with=""></day>	<day month="" of=""></day>	Plain	core
unique value of <day of="" week=""></day>	unique values	<day multiplicity="" of="" week="" with=""></day>	<day of="" week=""></day>	Plain	core



Key Phrase	Plural	Creates a	From a	Form	Ref
unique value of <day of="" year=""></day>	unique values	<day multiplicity="" of="" with="" year=""></day>	<day of="" year=""></day>	Plain	core
unique value of <hertz></hertz>	unique values	<hertz multiplicity="" with=""></hertz>	<hertz></hertz>	Plain	core
unique value of <integer></integer>	unique values	<integer multiplicity="" with=""></integer>	<integer></integer>	Plain	core
unique value of <ipv4 address></ipv4 	unique values	<ipv4 address="" multiplicity="" with=""></ipv4>	<ipv4 address=""></ipv4>	Plain	core
unique value of <ipv4or6 address=""></ipv4or6>	unique values	<pre><ipv4or6 address="" multiplicity="" with=""></ipv4or6></pre>	<ipv4or6 address></ipv4or6 	Plain	core
unique value of <ipv6 address></ipv6 	unique values	<ipv6 address<br="">with multiplicity></ipv6>	<ipv6 address=""></ipv6>	Plain	core
unique value of <month and="" year=""></month>	unique values	<month and="" multiplicity="" with="" year=""></month>	<month and="" year=""></month>	Plain	core
unique value of <month></month>	unique values	<month multiplicity="" with=""></month>	<month></month>	Plain	core
unique value of <number months="" of=""></number>	unique values	<number of<br="">months with multiplicity></number>	<number months="" of=""></number>	Plain	core
unique value of <site list="" version=""></site>	unique values	<site list="" multiplicity="" version="" with=""></site>	<site list="" version=""></site>	Plain	core
unique value of <string></string>	unique values	<string multiplicity="" with=""></string>	<string></string>	Plain	core
unique value of <time interval=""></time>	unique values	<time interval="" multiplicity="" with=""></time>	<time interval=""></time>	Plain	core
unique value of <time day="" of="" with<br="">time zone></time>	unique values	<time day="" of="" with<br="">time zone with multiplicity></time>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
unique value of <time day="" of=""></time>	unique values	<time day="" multiplicity="" of="" with=""></time>	<time day="" of=""></time>	Plain	core
unique value of <time range=""></time>	unique values	<time multiplicity="" range="" with=""></time>	<time range=""></time>	Plain	core
unique value of <time zone=""></time>	unique values	<time multiplicity="" with="" zone=""></time>	<time zone=""></time>	Plain	core

Key Phrase	Plural	Creates a	From a	Form	Ref
unique value of <time></time>	unique values	<time multiplicity="" with=""></time>	<time></time>	Plain	core
unique value of <uuid></uuid>	unique values	<uuid multiplicity="" with=""></uuid>	<uuid></uuid>	Plain	sol
unique value of <version></version>	unique values	<version multiplicity="" with=""></version>	<version></version>	Plain	core
unique value of <year></year>	unique values	<year multiplicity="" with=""></year>	<year></year>	Plain	core
universal time <string></string>	universal times	<time></time>	<world></world>	NamedGlobal	core
universal time zone	universal time zones	<time zone=""></time>	<world></world>	PlainGlobal	core
unix of <operating system=""></operating>	unixes	<boolean></boolean>	<pre><operating system=""></operating></pre>	Plain	sol
unordered list <string> of <html></html></string>	unordered lists	<html></html>	<html></html>	Named	core
unordered list <string> of <string></string></string>	unordered lists	<html></html>	<string></string>	Named	core
unordered list of httml>	unordered lists	<html></html>	<html></html>	Plain	core
unordered list of <string></string>	unordered lists	<html></html>	<string></string>	Plain	core
up of <network adapter interface></network 	ups	<boolean></boolean>	<network adapter="" interface=""></network>	Plain	sol
up of <network adapter></network 	ups	<boolean></boolean>	<network adapter=""></network>	Plain	sol
up of <network interface="" ip=""></network>	ups	<boolean></boolean>	<network interface="" ip=""></network>	Plain	sol
upload progress of <client></client>	upload progresses	<string></string>	<cli>ent></cli>	Plain	sol
ups of <power level=""></power>	upss	<boolean></boolean>	<power level=""></power>	Plain	sol
uptime of <operating system=""></operating>	uptimes	<time interval=""></time>	<pre><operating system=""></operating></pre>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
url of <site></site>	urls	<string></string>	<site></site>	Plain	sol
used amount of <ram></ram>	used amounts	<integer></integer>	<ram></ram>	Plain	sol
used file count of <filesystem></filesystem>	used file counts	<integer></integer>	<filesystem></filesystem>	Plain	sol
used percent of <filesystem></filesystem>	used percents	<integer></integer>	<filesystem></filesystem>	Plain	sol
used space of <filesystem></filesystem>	used spaces	<integer></integer>	<filesystem></filesystem>	Plain	sol
user	users	<user></user>	<world></world>	PlainGlobal	sol
user <string></string>	users	<user></user>	<world></world>	NamedGlobal	<u>sol</u>
user execute of <filesystem object=""></filesystem>	user executes	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
user mask of <filesystem object=""></filesystem>	user masks	<integer></integer>	<filesystem object=""></filesystem>	Plain	sol
user mask of <mode></mode>	user masks	<mode_mask></mode_mask>	<mode></mode>	Plain	sol
user name of <filesystem object=""></filesystem>	user names	<string></string>	<filesystem object=""></filesystem>	Plain	sol
user name of <symlink></symlink>	user names	<string></string>	<symlink></symlink>	Plain	sol
user read of <filesystem object=""></filesystem>	user reads	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
user write of <filesystem object=""></filesystem>	user writes	<boolean></boolean>	<filesystem object=""></filesystem>	Plain	sol
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>property></pre></pre></pre></pre>	Plain	core
uuid <string></string>	uuids	<uuid></uuid>	<world></world>	NamedGlobal	sol
uuid of <zone></zone>	uuids	<uuid></uuid>	<zone></zone>	Plain	sol
value accessible of <symlink></symlink>	values accessible	<boolean></boolean>	<symlink></symlink>	Plain	sol

Key Phrase	Plural	Creates a	From a	Form	Ref
value of <environment variable></environment 	values	<string></string>	<environment variable=""></environment>	Plain	sol
value of <fixlet_header></fixlet_header>	values	<string></string>	<fixlet_header></fixlet_header>	Plain	<u>sol</u>
value of <runlevel></runlevel>	values	<string></string>	<runlevel></runlevel>	Plain	<u>sol</u>
value of <setting></setting>	values	<string></string>	<setting></setting>	Plain	sol
value of <symlink></symlink>	values	<string></string>	<symlink></symlink>	Plain	sol
var <string> of <html></html></string>	vars	<html></html>	<html></html>	Named	core
var <string> of <string></string></string>	vars	<html></html>	<string></string>	Named	core
var of <html></html>	vars	<html></html>	<html></html>	Plain	core
var of <string></string>	vars	<html></html>	<string></string>	Plain	core
variable <string> of <environment></environment></string>	variables	<environment variable=""></environment>	<environment></environment>	Named	sol
variable of <environment></environment>	variables	<environment variable=""></environment>	<environment></environment>	Plain	sol
variable of <file></file>	variables	<string></string>	<file></file>	Plain	sol
vendor of <pkginfo></pkginfo>	vendors	<string></string>	<pkginfo></pkginfo>	Plain	sol
version <string></string>	versions	<version></version>	<world></world>	NamedGlobal	core
version of <application usage<br="">summary instance></application>	versions	<version></version>	<application instance="" summary="" usage=""></application>	Plain	sol
version of <bios></bios>	versions	<string></string>	 	Plain	sol
version of <client></client>	versions	<version></version>	<cli><cli>ent></cli></cli>	Plain	sol
version of <current relay=""></current>	versions	<version></version>	<current relay=""></current>	Plain	sol
version of <pkginfo></pkginfo>	versions	<string></string>	<pkginfo></pkginfo>	Plain	sol
version of <service></service>	versions	<version></version>	<service></service>	Plain	sol



Key Phrase	Plural	Creates a	From a	Form	Ref
version of <site></site>	versions	<integer></integer>	<site></site>	Plain	sol
version string <string> of <module></module></string>	version strings	<string></string>	<module></module>	Named	core
waiting for download of <action></action>	waiting for downloads	<boolean></boolean>	<action></action>	Plain	sol
wake on lan subnet cidr string	wake on lan subnet cidr strings	<string></string>	<world></world>	PlainGlobal	sol
wednesday	wednesdays	<day of="" week=""></day>	<world></world>	PlainGlobal	core
week	weeks	<time interval=""></time>	<world></world>	PlainGlobal	core
weight of <selected server=""></selected>	weights	<integer></integer>	<selected server=""></selected>	Plain	sol
windows of <operating system=""></operating>	windowses	<boolean></boolean>	<pre><operating system=""></operating></pre>	Plain	sol
windows server count of <bes product></bes 	windows server counts	<integer></integer>	<bes product=""></bes>	Plain	sol
workstation count of <bes product=""></bes>	workstation counts	<integer></integer>	<bes product=""></bes>	Plain	sol
write of <mode_mask></mode_mask>	writes	<boolean></boolean>	<mode_mask></mode_mask>	Plain	<u>sol</u>
year	years	<number months="" of=""></number>	<world></world>	PlainGlobal	core
year <integer></integer>	years	<year></year>	<world></world>	NumberedGlobal	core
year <string></string>	years	<year></year>	<world></world>	NamedGlobal	core
year of <date></date>	years	<year></year>	<date></date>	Plain	core
year of <month and="" year=""></month>	years	<year></year>	<month and="" year=""></month>	Plain	core
zone	zones	<zone></zone>	<world></world>	PlainGlobal	<u>sol</u>
zone <integer></integer>	zones	<zone></zone>	<world></world>	NumberedGlobal	<u>sol</u>

Tivoli Endpoint Manager

Key Phrase	Plural	Creates a	From a	Form	Ref
zone <string></string>	zones	<zone></zone>	<world></world>	NamedGlobal	<u>sol</u>
zone <uuid></uuid>	zones	<zone></zone>	<world></world>	Index <uuid>Glob al</uuid>	sol
zone of <pre>cone of <pre>cone</pre></pre>	zones	<zone></zone>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Plain	<u>sol</u>
zone of <time day="" of="" time="" with="" zone=""></time>	zones	<time zone=""></time>	<time day="" of="" time="" with="" zone=""></time>	Plain	core
zoned time_of_day <string></string>	zoned times_of_day	<time day="" of="" time="" with="" zone=""></time>	<world></world>	NamedGlobal	core



Casting Operators

Casting operators help you to convert one object type into another. This section contains those casting operators pertinent to this guide, as well as the core and regex inspectors, which are available in all contexts.

Key Phrase	Creates a	From a
<action lock="" state=""> as string</action>	<string></string>	<action lock="" state=""></action>
 	<string></string>	
 	<string></string>	<bios></bios>
 	<integer></integer>	
 	<string></string>	
<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>
<day of="" year=""> as string</day>	<string></string>	<day of="" year=""></day>
<environment variable=""> as string</environment>	<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>
<filesystem object=""> as device file</filesystem>	<device file=""></device>	<filesystem object=""></filesystem>
<filesystem object=""> as fifo file</filesystem>	<fifo file=""></fifo>	<filesystem object=""></filesystem>

Key Phrase	Creates a	From a
<filesystem object=""> as socket file</filesystem>	<socket file=""></socket>	<filesystem object=""></filesystem>
<filesystem object=""> as string</filesystem>	<string></string>	<filesystem object=""></filesystem>
<filesystem object=""> as symlink</filesystem>	<symlink></symlink>	<filesystem object=""></filesystem>
<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>	 	<integer></integer>
<integer> as bits</integer>	 	<integer></integer>
<integer> as day_of_month</integer>	<day month="" of=""></day>	<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>
<ip version=""> as string</ip>	<string></string>	<ip version=""></ip>
<ipv4 address=""> as ipv4or6 address</ipv4>	<ipv4or6 address=""></ipv4or6>	<ipv4 address=""></ipv4>
<ipv4 address=""> as ipv6 address</ipv4>	<ipv6 address=""></ipv6>	<ipv4 address=""></ipv4>
<ipv4 address=""> as string</ipv4>	<string></string>	<ipv4 address=""></ipv4>
<ipv4or6 address=""> as compressed string</ipv4or6>	<string></string>	<ipv4or6 address=""></ipv4or6>
<pre><ipv4or6 address=""> as compressed string with ipv4</ipv4or6></pre>	<string></string>	<ipv4or6 address=""></ipv4or6>
<ipv4or6 address=""> as compressed string with ipv4 with zone index</ipv4or6>	<string></string>	<ipv4or6 address=""></ipv4or6>
<pre><ipv4or6 address=""> as compressed string with zone index</ipv4or6></pre>	<string></string>	<ipv4or6 address=""></ipv4or6>
<ipv4or6 address=""> as string</ipv4or6>	<string></string>	<ipv4or6 address=""></ipv4or6>



Key Phrase	Creates a	From a
<ipv4or6 address=""> as string with ipv4</ipv4or6>	<string></string>	<ipv4or6 address=""></ipv4or6>
<pre><ipv4or6 address=""> as string with ipv4 with zone index</ipv4or6></pre>	<string></string>	<ipv4or6 address=""></ipv4or6>
<pre><ipv4or6 address=""> as string with leading zeros</ipv4or6></pre>	<string></string>	<ipv4or6 address=""></ipv4or6>
<pre><ipv4or6 address=""> as string with leading zeros with zone index</ipv4or6></pre>	<string></string>	<ipv4or6 address=""></ipv4or6>
<pre><ipv4or6 address=""> as string with zone index</ipv4or6></pre>	<string></string>	<ipv4or6 address=""></ipv4or6>
<ipv6 address=""> as compressed string</ipv6>	<string></string>	<ipv6 address=""></ipv6>
<ipv6 address=""> as compressed string with ipv4</ipv6>	<string></string>	<ipv6 address=""></ipv6>
<pre><ipv6 address=""> as compressed string with ipv4 with zone index</ipv6></pre>	<string></string>	<ipv6 address=""></ipv6>
<ipv6 address=""> as compressed string with zone index</ipv6>	<string></string>	<ipv6 address=""></ipv6>
<ipv6 address=""> as ipv4or6 address</ipv6>	<ipv4or6 address=""></ipv4or6>	<ipv6 address=""></ipv6>
<ipv6 address=""> as string</ipv6>	<string></string>	<ipv6 address=""></ipv6>
<pre><ipv6 address=""> as string with ipv4</ipv6></pre>	<string></string>	<ipv6 address=""></ipv6>
<pre><ipv6 address=""> as string with ipv4 with zone index</ipv6></pre>	<string></string>	<ipv6 address=""></ipv6>
<ipv6 address=""> as string with leading zeros</ipv6>	<string></string>	<ipv6 address=""></ipv6>
<pre><ipv6 address=""> as string with leading zeros with zone index</ipv6></pre>	<string></string>	<ipv6 address=""></ipv6>
<ipv6 address=""> as string with zone index</ipv6>	<string></string>	<ipv6 address=""></ipv6>
<language> as string</language>	<string></string>	<language></language>
<mode_mask> as integer</mode_mask>	<integer></integer>	<mode_mask></mode_mask>
<mode_mask> as string</mode_mask>	<string></string>	<mode_mask></mode_mask>

160 Tivoli Endpoint Manager

Key Phrase	Creates a	From a
<mode> as octal string</mode>	<string></string>	<mode></mode>
<mode> as string</mode>	<string></string>	<mode></mode>
<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>
<pkginfo> as string</pkginfo>	<string></string>	<pkginfo></pkginfo>
<pre><power level=""> as string</power></pre>	<string></string>	<power level=""></power>
<pri><primary language=""> as string</primary></pri>	<string></string>	<pre><pre><pre><pre>anguage></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><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
<rope> as string</rope>	<string></string>	<rope></rope>
<runlevel> as string</runlevel>	<string></string>	<runlevel></runlevel>
<setting> as string</setting>	<string></string>	<setting></setting>
<site list="" version=""> as string</site>	<string></string>	<site list="" version=""></site>
<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>
<string> as day_of_week</string>	<day of="" week=""></day>	<string></string>
<string> as hexadecimal</string>	<string></string>	<string></string>
<string> as html</string>	<html></html>	<string></string>



Key Phrase	Creates a	From a
<string> as integer</string>	<integer></integer>	<string></string>
<string> as ipv4or6 address</string>	<ipv4or6 address=""></ipv4or6>	<string></string>
<string> as left trimmed string</string>	<string></string>	<string></string>
<string> as local time</string>	<time></time>	<string></string>
<string> as local zoned time_of_day</string>	<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 site version list</string>	<site list="" version=""></site>	<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>
<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 year</string>	<year></year>	<string></string>
<string> as zoned time_of_day</string>	<time day="" of="" time="" with="" zone=""></time>	<string></string>
<symlink> as device file</symlink>	<device file=""></device>	<symlink></symlink>

162 Tivoli Endpoint Manager

Key Phrase	Creates a	From a
<symlink> as file</symlink>	<file></file>	<symlink></symlink>
<symlink> as folder</symlink>	<folder></folder>	<symlink></symlink>
<symlink> as socket file</symlink>	<socket file=""></socket>	<symlink></symlink>
<symlink> as string</symlink>	<string></string>	<symlink></symlink>
<symlink> as symlink</symlink>	<symlink></symlink>	<symlink></symlink>
<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>
<undefined> as string</undefined>	<string></string>	<undefined></undefined>
<uuid> as string</uuid>	<string></string>	<uuid></uuid>
<version> as string</version>	<string></string>	<version></version>
<version> as version</version>	<version></version>	<version></version>
<year> as integer</year>	<integer></integer>	<year></year>
<year> as string</year>	<string></string>	<year></year>
<zone interface="" network=""> as string</zone>	<string></string>	<zone interface="" network=""></zone>
<zone> as string</zone>	<string></string>	<zone></zone>



Part Three

Notices

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive Armonk, NY 10504-1785 U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
1623-14, Shimotsuruma, Yamato-shi
Kanagawa 242-8502 Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation

2Z4A/101

11400 Burnet Road

Austin, TX 78758 U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their

published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

TRADEMARKS:

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol ($^{\text{TM}}$), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also



be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at http://www.ibm.com/legal/copytrade.shtml.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

Part Four

Index

A

accessed time of <filesystem object> . 11, 96 accessed time of <symlink> · 30, 96 action · 5, 14, 53, 54, 59, 68, 69, 75, 76, 77, 96. 97, 104, 105, 109, 110, 111, 116, 120, 123, 125, 126, 135, 136, 137, 141, 145, 156, 158 action <integer> · 75, 96 action lock state · 97, 105, 109, 111, 125, 126, 158 Action Objects · v, 75 active action · 75, 97 active of <action> · 75, 97 active start time of <action> · 75. 97 adapter of <network adapter interface> · 82, 84, 97 adapter of <network> · 78, 82, 97 address of <network adapter interface> · 84, 87, address of <network adapter> · 82, 86, 97 address of <network ip interface> · 80, 86, 97 address of <zone network interface> · 49, 97 administrator <string> of <cli>ent> · 58, 59, 97 administrator of <cli>ent> · 58, 59, 97 alias of <network ip interface> . 80, 97 allow unmentioned site of cense> · 68, 98 analysis · 1, 55 ancestor of <filesystem object> · 11, 19, 98 ancestor of <symlink> · 19, 30, 98 any adapter of <network> · 78, 82, 98 apparent registration server time · 4, 98 application · 6, 14, 17, 18, 20, 24, 25, 57, 59, 65, 66, 67, 71, 98, 114, 120, 124, 132, 140, 141, 144, 145, 149, 155, 165 application <string> · 18, 20, 98 application <string> of <folder> · 18, 20, 98 application usage summary . 65, 66, 98, 114, 120, 124, 132, 141, 144, 145, 149, 155 application usage summary <string> · 65, 98 application usage summary instance · 65, 114, 120, 124, 132, 144, 145, 149, 155 arch of <pkginfo> · 91, 99 architecture of operating system> · 37, 99 Authorization Objects · iv, 73 autoboot value of <zone> · 47, 99 average of <evaluation cycle> · 64, 99

В

base of <patch> · 92, 99 bes license · 67, 69, 99 bes product · 69, 70, 104, 111, 133, 134, 139, 144, 156 bios · 36, 37, 106, 155, 158 boot argument <integer> of <zone> · 47, 100 boot argument of <zone> · 47, 100 boot time of coperating system> · 37, 101 brand of <cli>ent> · 58, 101 brand of <zone> · 47, 101 broadcast address of <network adapter interface> · 84, 87, 101 broadcast address of <network ip interface> · 80, 86, 101 broadcast support of <network adapter interface> · 85, 101 broadcast support of <network ip interface> . 80. 101 build of <operating system> · 38, 101 byte <integer> of <file> · 15, 101

C

Casting Operators · v, 158 casts · 102 category of <pkginfo> · 91, 102 change time of <symlink> · 30, 102 cidr address of <network adapter interface> · 85, cidr address of <network adapter> · 82, 102 cidr address of <network ip interface> · 80, 102 cidr string of <network adapter interface> . 85, cidr string of <network adapter> · 83, 102 cidr string of <network ip interface> · 81, 102 client · 1, 4, 6, 7, 17, 19, 22, 24, 25, 38, 39, 51, 52, 53, 54, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 73, 75, 77, 87, 88, 97, 101, 103, 107, 110, 140, 143, 153, 155 client cryptography · 73, 103 client folder of <site> · 19, 52, 103 client license · 67, 103 Client Objects · iv, 57 client_cryptography 103, 107, 110 codename of codename operating system> · 38, 103



command line argument <integer> of cprocess> +43,103command line argument of command line argument of command line argument comment of <zone> · 47, 104 common name of cense> · 68, 104 competition size of <selected server> · 61, 104 competition weight of <selected server> · 61, 104 complete time of <action> · 75, 104 computer count of <bes product> · 70, 104 computer id · 4, 104 computer name · 4, 5, 104 configuration state of <zone> · 47, 104 constrained of <action> · 75, 105 content of <file> . 15, 23, 105 controller of <action lock state> · 105 Conventions Used in this manual . 2 current analysis · 55, 105 current relay · 62, 105, 155 current site · 17, 51, 54, 105 current user · 74, 105 custom site subscription effective date <string> · 4, 105

D

date · 2 date of

dos> · 37, 106 default web browser · 14, 107 descendant folder of <folder> · 19, 20, 107 descendant of <folder> · 14, 20, 107 desired encrypt report of <client_cryptography> · device file · 8, 10, 20, 30, 33, 34, 107, 108, 109, 113, 126, 129, 158, 162 device file <filesystem object> · 33, 107 device file <string> · 20, 33, 107 device file <string> of <folder> · 20, 33, 107 device file <symlink> · 33, 108 device file of <folder> · 20, 33, 108 device type of <device file> · 33, 108 distance of <selected server> · 61, 108 dns name · 4, 108 domain name · 5, 108 domainname · 5, 108 download file <string> · 14, 108 download path <string> · 5, 108 download storage folder · 32, 109, 150 drive · 7, 8, 15, 20, 30, 34, 35, 36, 49, 109 drive <string> · 8, 109 drive of <device file> · 8, 34, 109 drive of <fifo file> · 8, 35, 109 drive of <file> . 8, 15, 109 drive of <folder> · 8, 20, 109

drive of <socket file> \cdot 8, 36, 109 drive of <symlink> \cdot 8, 30, 109

Ε

effective date of <action lock state> · 109 effective date of <setting> · 60, 109 effective time of <runlevel> · 46, 109 email address of cense> · 68, 110 enabled of <setting> · 60, 110 encrypt report failure message of <cli>client cryptography> · 73, 110 encrypt report of <client cryptography> · 73, 110 encryption certificate of cense> · 68, 73, 110 environment · 3, 42, 43, 44, 46, 71, 72, 110, 133, 155, 158 Environment Objects · iv, 71 environment of cess> · 43, 71, 110 environment variable · 42, 71, 72, 133, 155, 158 evaluation cycle · 58, 64, 99, 110, 127 evaluation of cense> · 68, 110 evaluationcycle of <cli>evaluationcycle of <cli>evalua exclusive ip of <zone> · 47, 110 execute of <mode_mask> · 27, 110 execution · 5, 32, 47, 75, 110 execution state of <zone> · 47, 110 exit code of <action> · 76, 110 expiration date of <action lock state> · 111 expiration date of <bes product> · 70, 111 expiration date of cense> · 68, 111 expiration state of cense> · 68, 111 extrema of <uuid> · 50, 112

F

family name of cessor> · 39, 112 family of <network interface> · 79, 112 family of cessor> · 39, 112 fifo file · 10, 21, 30, 34, 35, 109, 112, 113, 158 fifo file <filesystem object> · 34, 112 fifo file <string> · 21, 34, 112 fifo file <string> of <folder> · 21, 34, 112 fifo file <symlink> · 35, 112 fifo file of <folder> · 21, 35, 112 file · 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 42, 52, 53, 54, 73, 92, 101, 105, 107, 108, 109, 113, 115, 123, 125, 126, 134, 139, 142, 143, 144, 154, 155, 158, 163 file <string> · 14, 15, 21, 113 file <string> of <folder> · 15, 21, 113

file <symlink> · 15, 113 file content · 14, 15, 23, 24, 105, 158 file count of <filesystem> · 9, 113 file line · 16, 28, 29, 125, 134, 139 file of <folder> · 15, 21, 113 file section · 16, 22, 24, 123, 142 filesystem · 7, 8, 9, 10, 11, 12, 13, 14, 15, 19, 20, 21, 26, 29, 30, 33, 34, 35, 36, 96, 98, 107, 109, 112, 113, 115, 116, 117, 125, 130, 133, 135, 136, 137, 143, 144, 147, 150, 151, 154, 158, 159 filesystem <string> · 8, 113 filesystem object · 7, 8, 9, 10, 11, 12, 13, 14, 19, 26, 29, 33, 34, 35, 36, 96, 98, 107, 112, 116, 117, 125, 130, 133, 135, 136, 137, 143, 144, 147, 151, 154, 158, 159 Filesystem Objects · iii, 7 filesystem of <device file> · 8, 34, 113 filesystem of <fifo file> · 9, 35, 113 filesystem of <file> · 9, 15, 113 filesystem of <folder> 9, 20, 21, 113 filesystem of <socket file> · 9, 36, 113 filesystem of <symlink> · 9, 30, 113 find adapter <string> of <network> · 78, 82, 113 find file <string> of <folder> · 15, 21, 113 find folder <string> of <folder> · 19, 21, 113 fips mode of cense> · 68, 114 first start time of <application usage summary instance> · 66, 114 first start time of <application usage summary> · 65, 114 fixlet - 52, 53, 55, 56, 57, 105, 114, 118, 120, 133, 135, 141, 143, 155 Fixlet Objects · iv, 55 fixlet of <site> . 52, 55, 114 fixlet header · 56, 118, 133, 155 folder - 5, 8, 9, 11, 12, 14, 15, 17, 18, 19, 20, 21, 22, 24, 29, 30, 31, 32, 33, 34, 35, 36, 52, 53, 54, 98, 103, 107, 108, 109, 112, 113, 115, 136, 141, 144, 147, 163 folder <string> · 19, 21, 115 folder <string> of <folder> · 19, 21, 115 folder <symlink> · 20, 115 folder of <folder> · 20, 21, 115 fputype of cessor> · 39, 115 free amount of <ram> · 41, 115 free file count of <filesystem> · 9, 115 free percent of <filesystem> · 9, 115 free space of <filesystem> · 9, 115 friendly name of <network adapter> · 83, 115 full gateway address of <selected server> · 61, 87, 115 full of <power level> · 94, 115

G

gateway address <integer> of <selected server> · 61, 87, 115 gateway address of <selected server> · 62, 88, gather schedule authority of <site> · 52, 116 gather schedule time interval of <site> · 52, 116 gather url of cense> · 68, 116 gid of <filesystem object> · 11, 116 gid of <symlink> · 30, 116 greatest revision of <patch> · 92, 116 group <integer> of <site> · 52, 54, 116 aroup execute of <filesystem object> · 11, 116 group leader of <action> · 76, 116 group mask of <filesystem object> · 11, 116 group mask of <mode> · 26, 27, 116 group name of <filesystem object> · 11, 116 group name of <symlink> · 30, 116 group read of <filesystem object> · 11, 117 group write of <filesystem object> · 11, 117

Н

header <string> of <fixlet> \cdot 56, 118 header of <fixlet> \cdot 56, 118 host name \cdot 5, 6, 63, 118 host name of <root server> \cdot 63, 118 hostname \cdot 5, 118

1

id of <action> . 76, 120 id of <fixlet> · 56, 120 id of rocess> · 43, 120 id of cossor> · 39, 120 id of <root server> · 63, 120 id of <site group> · 54, 120 id of <zone> · 47, 120 index of cessor> · 39, 120 inherited package directory of <zone> · 47, 120 init process of <zone> · 42, 48, 120 Installed System Software · v. 89 instance of <application usage summary> . 65, 66, 120 interface <integer> of <network> · 78, 79, 121 interface of <network> . 78, 79, 121 ip address of <selected server> · 62, 88, 121 ip interface <integer> of <network> · 78, 80, 121 ip interface of <network> · 78, 80, 121 ipv4 interface of <network adapter> · 83, 84, 121 ipv4 interface of <network> · 78, 84, 122



ipv4or6 interface of <network adapter> · 83, 84,

ipv4or6 interface of <network> · 79, 84, 122 ipv6 interface of <network adapter> · 83, 84, 122 ipv6 interface of <network> · 79, 84, 122

Κ

key <string> of <file section> · 23, 123 key <string> of <file> · 16, 123 Key Phrases (Inspectors) · v. 96 keywords · 1, 2, 3, 7, 36, 51, 75, 78, 96

language · 1, 3, 4, 6, 44, 45, 138, 139, 147, 160,

last change time of <action> · 76, 123

last gather time of <site> · 52, 123

last relay select time · 5, 123

last start time of <application usage summary instance> · 66, 124

last start time of <application usage summary> · 65. 124

last time seen of <application usage summary instance> · 66, 124

last time seen of <application usage summary> · 65, 124

least revision of <patch> · 93, 124

license · 67, 68, 69, 70, 98, 99, 103, 104, 110, 111, 114, 116, 128, 135, 139, 140, 142, 143, 145, 151, 164

License Objects · iv, 67

line <integer> of <file> · 16, 28, 125

line containing <string> of <file> · 16, 28, 125

line number of <file line> · 28, 125

line of <file> · 16, 28, 125

line starting with <string> of <file> · 16, 28, 125

link count of <filesystem object> · 11, 125

link count of <symlink> · 31, 125

location of <filesystem object> · 11, 125

location of <symlink> · 31, 125

lock string of <action lock state> . 125

locked of <action lock state> · 126

loopback of <network adapter interface> . 85, 126

loopback of <network adapter> · 83, 126

loopback of <network ip interface> · 81, 126

low of <power level> · 94, 126

М

mac address of <network adapter interface> · 85, 126

mac address of <network adapter> · 83, 126

mac address of <network ip interface> · 81, 126

mac of operating system> · 38, 126

main gather service · 41, 126

main processor · 39, 40, 126

major of <device file> · 34, 126

masthead of <site> · 15, 52, 126

maximum of <evaluation cycle> · 64, 127

maximum of <uuid> · 49, 50, 128

maximum seat count of cense> · 68, 128

member of <site group> · 54, 128

minimum of <uuid> · 49, 50, 129

minor of <device file> · 34, 129

mode · 11, 25, 26, 27, 45, 46, 68, 107, 110, 113,

114, 116, 130, 136, 140, 143, 145, 154, 156,

160, 161

mode of <filesystem object> · 11, 26, 130

mode_mask · 26, 27, 110, 116, 136, 140, 154, 156, 160

model of cprocessor> · 40, 130

modification time of <filesystem object> · 12,

modification time of <symlink> · 31, 130

multicast support of <network adapter interface>

+85,130

multicast support of <network adapter> · 83, 130 multicast support of <network ip interface> · 81,

multiplicity of <uuid with multiplicity> · 51, 132

Ν

name of <application usage summary instance> \cdot 67, 132

name of <application usage summary> · 65, 132

name of <bes product> · 70, 133

name of <environment variable> · 72, 133

name of <filesystem object> · 12, 133

name of <filesystem> · 9, 133

name of <fixlet header> · 57, 133

name of <network adapter> · 83, 133

name of <network ip interface> · 81, 133

name of operating system> · 38, 133

name of <pkginfo> · 91, 133

name of coss> · 43, 133

name of <selected server> · 62, 133

name of <setting> · 60, 133

name of <site> . 52, 133

name of <symlink> · 31, 133

name of <user> · 74, 133 name of <zone network interface> · 49, 134 name of <zone> · 48, 134 network · 1, 2, 4, 5, 48, 49, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 97, 98, 101, 102, 112, 113, 115, 121, 122, 126, 130, 131, 133, 134, 138, 146, 153 network adapter · 78, 79, 82, 83, 84, 85, 86, 87, 97, 98, 101, 102, 113, 115, 121, 122, 126, 130, 133, 138, 146, 153 network adapter interface · 78, 79, 82, 83, 84, 85, 87, 97, 101, 102, 121, 122, 126, 130, 138, 146, 153 network interface · 48, 49, 78, 79, 80, 86, 112, 121, 134 network interface <string> of <zone> · 48, 49, 134 network interface of <zone> · 48, 49, 134 network ip interface · 78, 80, 81, 82, 86, 97, 101, 102, 121, 126, 131, 133, 138, 146, 153 Networking Objects · v, 78 next line of <file line> · 28, 134 non windows server count of <bes product> -70, 134 normal of <power level> · 94, 134

0

offer accepted of <action> · 76, 135
offer of <action> · 76, 135
operating system · 1, 2, 5, 14, 18, 37, 38, 39, 45, 46, 99, 101, 103, 126, 133, 135, 140, 153, 156, 161
organization of license> · 69, 135
origin fixlet id of <action> · 76, 135
other execute of <filesystem object> · 12, 135
other mask of <filesystem object> · 12, 135
other mask of <filesystem object> · 12, 136
other read of <filesystem object> · 12, 136
other write of <filesystem object> · 12, 136

P

param <string> of <pkginfo> · 91, 136 parameter <string> · 5, 76, 136 parameter <string> of <action> · 5, 76, 136 parent folder of <filesystem object> · 12, 20, 136 parent folder of <symlink> · 20, 31, 136 patch · 70, 89, 90, 91, 92, 93, 99, 116, 124, 136, 137, 141 patch <string> of <pkgdb> · 89, 92, 136 patch <string> of <pkginfo> · 91, 92, 136 patch id <string> of <pkgdb> · 89, 137 patch id <string> of <pkginfo> · 91, 137

patch id of <pkgdb> · 89, 137 patch id of <pkginfo> · 91, 137 patch of <pkgdb> · 89, 92, 137 patch of <pkginfo> · 91, 92, 137 path of <zone> · 48, 137 pathname of <filesystem object> · 12, 137 pathname of <symlink> · 31, 137 pending login · 5, 76, 137 pending login of <action> · 76, 137 pending of <action> · 77, 137 pending restart · 5, 6, 77, 137 pending restart <string> · 6, 137 pending restart name · 6, 137 pending restart of <action> · 77, 137 pending time of <action> · 77, 137 physical memory cap of <zone> · 48, 137 pid of cprocess> · 43, 137 pkgdb · 89, 90, 92, 93, 136, 137, 138 pkginfo · 89, 90, 91, 92, 93, 99, 102, 133, 136, 137, 138, 155, 161 pkginfo <string> of <pkgdb> · 89, 90, 138 pkginfo of <pkgdb> · 89, 90, 138 pkginst of <pkginfo> · 91, 138 platform id of <language> · 44, 138 plugged of <power level> · 94. 138 point to point of <network adapter interface> . 85. 138 point to point of <network ip interface> · 81, 138 port number of <selected server> · 62, 138 Power Inspectors · v, 94 power level · 94, 95, 115, 126, 134, 138, 153, previous line of <file line> · 28, 29, 139 primary language · 44, 45, 139, 161 primary language of <language> · 44, 45, 139 priority of <selected server> · 62, 139 process · 5, 22, 42, 43, 46, 48, 71, 103, 104, 110, 120, 133, 137, 139, 157 process <integer> · 43, 139 process <string> · 43, 139 process id of cess> · 43, 139 processor · 39, 40, 112, 115, 120, 126, 130, 139, 145, 151 processor <integer> · 39, 139 product of cense> · 69, 70, 139

R

ram · 40, 41, 115, 140, 144, 149, 154
random access memory · 40, 41, 140
read of <mode_mask> · 27, 140
recent application · 18, 140
recent application <string> · 18, 140
registrar number of clicense> · 69, 140
registration address of <cli>client> · 58, 88, 140

Tivoli.

registration cidr address of <cli>ent> · 58, 140 registration mac address of <cli>ent> · 58, 140 registration server · 4 registration subnet address of <cli>ent> · 58, 88, 140 relay service · 41, 140 release of operating system> · 38, 140 Relevance Language . 2 relevance of <fixlet> · 56, 141 relevant fixlet of <site> · 53, 55, 141 relevant offer action of <site> · 53, 75, 141 revision <string> of <patch> · 93, 141 revision of <patch> · 93, 141 root folder - 20, 22, 141 root server · 24, 62, 63, 73, 118, 120, 141 runlevel · 45, 46, 109, 141, 155, 161 running application · 18, 141 running application <string> · 18, 141 running of <application usage summary> . 66, running service <string> · 42, 142

S

scheduling class of <zone> · 48, 142 seat count state of cense> · 69, 142 seat of cense> · 69, 142 section <string> of <file> · 16, 22, 142 selected server · 61, 62, 87, 88, 104, 108, 115, 121, 133, 138, 139, 142, 156 service · 24, 41, 42, 126, 140, 142, 145, 155, 164, 166 service <string> · 42, 142 setgid of <filesystem object> · 12, 143 setgid of <mode> · 26, 143 setting · 30, 53, 58, 59, 60, 65, 97, 109, 110, 133, 143, 155, 161 setting <string> of <cli>ent> · 58, 59, 143 setting <string> of <site> · 53, 60, 143 setting of <cli>ent> · 59, 60, 143 setting of <site> · 53, 60, 143 setuid of <filesystem object> · 12, 143 setuid of <mode> · 26, 143 sha1 of <file> · 16, 143 site · 4, 15, 19, 51, 52, 53, 54, 55, 56, 57, 59, 60, 68, 69, 70, 75, 103, 104, 105, 111, 114, 116, 120, 123, 126, 127, 128, 129, 132, 133, 141, 143, 144, 146, 151, 152, 154, 156, 161, site <string> · 52, 143 site group · 52, 54, 116, 120, 128 site number of cense> · 69, 143 Site Objects · iv, 51 site of <fixlet> · 52, 56, 143

site tag of <site> · 53, 143 site url of <bes product> · 70, 144 site version list of <site> · 53, 55, 144 size of <application usage summary instance> · 67, 144 size of <file> · 16, 144 size of <filesystem> · 9, 144 size of <ram> · 41, 144 socket file · 8, 9, 10, 21, 22, 30, 35, 36, 109, 113, 144, 159, 163 socket file <filesystem object> · 35, 144 socket file <string> · 21, 35, 36, 144 socket file <string> of <folder> · 21, 36, 144 socket file <symlink> · 36, 144 socket file of <folder> · 22, 36, 144 speed of cprocessor> · 40, 145 start date of cense> · 69, 145 state of cessor> · 40, 145 state of <service> · 42, 145 status of <action> · 77, 145 sticky of <mode> · 26, 145 string version of <application usage summary instance> · 67, 145 subnet address of <network adapter interface> · 85, 88, 146 subnet address of <network adapter> · 83, 86, subnet address of <network ip interface> · 81, 86, 146 subnet mask of <network adapter interface> . 85, 88, 146 subnet mask of <network adapter> · 83, 86, 146 subnet mask of <network ip interface> · 81, 86, subscribe time of <site> · 53, 146 symlink · 8, 9, 11, 13, 14, 15, 19, 20, 22, 29, 30, 31, 32, 33, 34, 35, 36, 96, 98, 102, 108, 109, 112, 113, 115, 116, 125, 130, 133, 136, 137, 144, 147, 151, 154, 155, 159, 162, 163 symlink <filesystem object> · 29, 147 symlink <string> · 22, 29, 147 symlink <string> of <folder> · 22, 29, 147 symlink <symlink> · 29, 147 symlink of <folder> · 22, 29, 147 system language - 6, 147 system locale · 44, 45, 147 System Objects · iii, 36 system ui language · 44, 147

T

total amount of <ram> · 41, 149 total duration of <application usage summary instance> · 67, 149 total duration of <application usage summary> 66, 149

total run count of <application usage summary instance> 67, 149

total run count of <application usage summary> 66, 149

total size of <download storage folder> 32, 150

total space of <filesystem> 9, 150

tty of <user> 74, 150

type of <filesystem> 10, 151

type of 69, 151

type of 70, 151

type of <site> 53, 151

U

uid of <filesystem object> · 12, 151 uid of <symlink> · 31, 151 unique value of <uuid> · 50, 51, 153 unix of <operating system> · 38, 153 up of <network adapter interface> · 85, 153 up of <network adapter> · 83, 153 up of <network ip interface> · 81, 153 upload progress of <cli>ent> · 59, 153 ups of <power level> · 94, 153 uptime of coperating system> · 38, 153 url of <site> · 53, 154 used amount of <ram> · 41, 154 used file count of <filesystem> · 10, 154 used percent of <filesystem> · 10, 154 used space of <filesystem> · 10, 154 user · 5, 6, 12, 13, 26, 27, 31, 46, 74, 83, 105, 133, 150, 154, 164 user <string> · 74, 154 user execute of <filesystem object> · 12, 154 user mask of <filesystem object> · 13, 154 user mask of <mode> · 26, 27, 154 user name of <filesystem object> · 13, 154 user name of <symlink> · 31, 154 User Objects · iv, 74 user read of <filesystem object> · 13, 154 user write of <filesystem object> 13, 154 uuid · 46, 48, 49, 50, 51, 112, 128, 129, 132, 153, 154, 157, 163 uuid <string> · 50, 154 uuid of <zone> · 48. 50. 154 uuid with multiplicity · 50, 132, 153

V

value accessible of <symlink> · 31, 154

value of <environment variable> · 72, 155 value of <fixlet header> · 57, 155 value of <runlevel> · 46, 155 value of <setting> · 60, 155 value of <symlink> · 31, 155 variable <string> of <environment> · 71, 72, 155 variable of <environment> · 71, 72, 155 variable of <file> · 17, 155 vendor of <pkginfo> · 91, 155 version - 2 version of <application usage summary instance> · 24, 67, 155 version of <bios> · 37, 155 version of <cli>ent> · 24, 59, 155 version of <current relay> · 24, 63, 155 version of <pkginfo> · 91, 155 version of <service> · 24, 42, 155 version of <site> · 53, 156

W

waiting for download of <action> · 77, 156
wake on lan subnet cidr string · 6, 156
weight of <selected server> · 62, 156
windows of <operating system> · 38, 156
windows server count of <bes product> · 70, 156
workstation count of <bes product> · 70, 156
World Objects · iii, 4
write of <mode_mask> · 27, 156

Y

year · 2

Z

173