

Tivoli. *Endpoint Manager*
Version 8.1

AIX Client Inspector Guide





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Introduction

The ***Tivoli Endpoint Manager AIX 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 AIX OS. Thousands of Inspectors have been created to expose the inner workings of AIX 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***.

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 AIX-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 AIX Operating System. Contact your Tivoli Endpoint Manager marketing representative for information about Inspector Guides for other operating systems, including Windows, Solaris, 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 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'.
<i>Italics</i>	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 cross-platform 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, of course. 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
<i>Plain</i>	keyword of <object>	address of ip interface
<i>Plain Global</i>	keyword	drives
<i>Named</i>	keyword " <i>name</i> " of <object>	variable "PATH" of environment
<i>Named Global</i>	keyword " <i>name</i> "	primary internet connection
<i>Numbered</i>	keyword <i>number</i> of <object>	line 5 of file "/usr/lib/foobar"
<i>Numbered Global</i>	keyword <i>number</i>	month 9
<i>Index<(list)></i>	keyword (list) of <object>	substring (1,2) of "abcdefg"
<i>Index<(list)> Global</i>	keyword (list)	integers in (2,-1)
<i>Binary Operator</i>	<object> {op, cmp} <object>	December – current month
<i>Unary Operator</i>	{op} <object>	-month
<i>Cast</i>	<object> as keyword	"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	<i>PlainGlobal</i>	<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	<i>PlainGlobal</i>	<integer>	This is a unique integer assigned to the computer by the BES system. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
computer name	<i>PlainGlobal</i>	<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>	<i>NamedGlobal</i>	<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
dns name	<i>PlainGlobal</i>	<string>	Returns the DNS name of the computer. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
domain name	<i>PlainGlobal</i>	<string>	Returns the fully qualified domain name of the machine. Lin, Sol, HPUX, AIX, Ubu

Key Phrase	Form	Return Type	Description
domainname	<i>PlainGlobal</i>	<string>	Same as domain name. Lin, Sol, HPUX, AIX, Ubu
download path <string>	<i>NamedGlobal</i>	<string>	This inspector is available in relevance substitution 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	<i>PlainGlobal</i>	<string>	Returns the machine name (the same as the computer name or hostname on UNIX machines). Lin, Sol, HPUX, AIX, Ubu
hostname	<i>PlainGlobal</i>	<string>	Returns the standard host name, usually for the computer's network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last relay select time	<i>PlainGlobal</i>	<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>	<i>NamedGlobal</i>	<string>	This Inspector is a synonym for the parameter <string> of <action>. It looks up the value of the action parameter specified by <string>. This is used in conjunction with the parameter set command. Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
pending login	<i>PlainGlobal</i>	<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	<i>PlainGlobal</i>	<boolean>	Returns TRUE if the operating system indicates that a restart needs to occur. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pending restart <string>	<i>NamedGlobal</i>	<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

Key Phrase	Form	Return Type	Description
pending restart name	<i>PlainGlobal</i>	<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	<i>PlainGlobal</i>	<string>	Returns the language of the system as a string. It is identified using the <code>GetSystemDefaultLangID()</code> 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	<i>PlainGlobal</i>	<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	<i>PlainGlobal</i>	<p>Iterates through all valid drives on the system. Typically used to return a list of the drives (volumes, filesystems) on the client computer.</p> <ul style="list-style-type: none"> • On Windows computers, this returns a <drive> object. • On *nix computers, this returns a <filesystem> object. • Drives, volumes and filesystems are treated the same on the Macintosh and return a <volume> type. <p>Lin, Sol, HPUX, AIX, , WM, Ubu</p>

Key Phrase	Form	Description
drive <string>	<i>NamedGlobal</i>	Returns the drive associated with the pathname specified by <string>. <ul style="list-style-type: none"> • 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
drive of <device file>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	Returns the drive associated with the specified file. <ul style="list-style-type: none"> • On Macintosh computers, this returns a <volume> object. • On *nix computers, this returns a <filesystem> object. Lin, Sol, HPUX, AIX, , Ubu
drive of <folder>	<i>Plain</i>	Returns the drive associated with the specified folder. <ul style="list-style-type: none"> • On Macintosh computers, this returns a <volume> object. • On *nix computers, this returns a <filesystem> object. Lin, Sol, HPUX, AIX, , Ubu
drive of <socket file>	<i>Plain</i>	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>	<i>Plain</i>	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	<i>PlainGlobal</i>	Returns <filesystem> objects for all currently mounted file systems. Lin, Sol, HPUX, AIX, Ubu
filesystem <string>	<i>NamedGlobal</i>	Returns the filesystem object for the name provided. Lin, Sol, HPUX, AIX, Ubu
filesystem of <device file>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	Returns the filesystem on which the file resides. Lin, Sol, HPUX, AIX, Ubu
filesystem of <folder>	<i>Plain</i>	Returns the filesystem on which the folder resides. Lin, Sol, HPUX, AIX, Ubu
filesystem of <socket file>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	<integer>	Returns the total number of files that may be saved on this filesystem. Lin, Sol, HPUX, AIX, Ubu
free file count of <filesystem>	<i>Plain</i>	<integer>	Returns the number of files available on this filesystem. Lin, Sol, HPUX, AIX, Ubu
free percent of <filesystem>	<i>Plain</i>	<integer>	Returns the percentage of the file system currently available. Lin, Sol, HPUX, AIX, Ubu
free space of <filesystem>	<i>Plain</i>	<integer>	Returns the number of bytes on this filesystem. Lin, Sol, HPUX, AIX, Ubu
logical volume of <filesystem>	<i>Plain</i>	<logical volume>	On an AIX system, returns the logical volume corresponding to the given filesystem. AIX:7.0
name of <filesystem>	<i>Plain</i>	<string>	Returns the mount point of the filesystem object. Lin, Sol, HPUX, AIX, Ubu
size of <filesystem>	<i>Plain</i>	<integer>	Returns the total number of bytes on this file system (same as total space). Lin, Sol, HPUX, AIX, Ubu

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

Properties

Key Phrase	Form	Return Type	Description
<filesystem object> as device file	<i>Cast</i>	<device file>	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
<filesystem object> as fifo file	<i>Cast</i>	<fifo file>	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

Key Phrase	Form	Return Type	Description
<filesystem object> as socket file	<i>Cast</i>	<socket file>	Casts a given filesystem object as a socket file. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu
<filesystem object> as string	<i>Cast</i>	<string>	Casts a filesystem object as a string. Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
<filesystem object> as symlink	<i>Cast</i>	<symlink>	Casts a link in the form of a file into a symlink. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
accessed time of <filesystem object>	<i>Plain</i>	<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>	<i>Plain</i>	<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 object>	<i>Plain</i>	<integer>	Returns the group ID of the given filesystem object. Lin, Sol, HPUX, AIX, Ubu
group execute of <filesystem object>	<i>Plain</i>	<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>	<i>Plain</i>	<integer>	Returns the group permission mask of the given filesystem object. Lin, Sol, HPUX, AIX, Ubu
group name of <filesystem object>	<i>Plain</i>	<string>	Returns the group name of the given filesystem object. Lin, Sol, HPUX, AIX, Ubu
group read of <filesystem object>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<string>	Returns the name of the directory in which the file or folder (filesystem object) is located. Win, Lin, Sol, HPUX, AIX, WM, Ubu

Key Phrase	Form	Return Type	Description
mode of <filesystem object>	<i>Plain</i>	<mode>	Returns the permissions mode for the given filesystem object. Lin, Sol, HPUX, AIX, Ubu
modification time of <filesystem object>	<i>Plain</i>	<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 object>	<i>Plain</i>	<string>	This returns the name of the file or folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
other execute of <filesystem object>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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 <filesystem object>	<i>Plain</i>	<folder>	The folder containing the specified file or folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pathname of <filesystem object>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<integer>	The user ID of the user who owns this filesystem object. Lin, Sol, HPUX, AIX, Ubu

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

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	<i>Cast</i>	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	<i>PlainGlobal</i>	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. <ul style="list-style-type: none"> • Note: This Inspector returns a <file> object on UNIX, an <application> on Windows and a <filesystem object> on the Mac. Lin, Sol, HPUX, AIX, Ubu
descendant of <folder>	<i>Plain</i>	Returns a list of all the descendant files of the specified folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
download file <string>	<i>NamedGlobal</i>	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>	<i>NamedGlobal</i>	Returns a filesystem object corresponding to the full pathname provided in <string>. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
file <string> of <folder>	<i>Named</i>	Creates the file objects corresponding to the named file within the folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
file <symlink>	<i>Index<symlink>Global</i>	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>	<i>Plain</i>	Iterates through the files of a folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
find file <string> of <folder>	<i>Named</i>	Creates an object corresponding to the files of the folder that match the wildcard <string> provided. A wildcard string uses an asterisk to stand for any number of characters (including 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, Lin, Sol, HPUX, AIX, Mac:8.0, WM, Ubu
masthead of <site>	<i>Plain</i>	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>	<i>Numbered</i>	<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, HPUNIX, AIX, Mac, WM, Ubu
content of <file>	<i>Plain</i>	<file content>	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, HPUNIX, AIX, Mac, WM, Ubu
drive of <file>	<i>Plain</i>	<filesystem>	Returns the drive associated with the specified file as a <filesystem> object. Lin, Sol, HPUNIX, AIX, Ubu
filesystem of <file>	<i>Plain</i>	<filesystem>	Returns the UNIX filesystem flag for the given file. Lin, Sol, HPUNIX, AIX, Ubu
key <string> of <file>	<i>Named</i>	<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. Win, Lin, Sol, HPUNIX, AIX, Mac, Ubu
line <integer> of <file>	<i>Numbered</i>	<file line>	Returns the nth line (specified by <integer>) from the given file. Win, Lin, Sol, HPUNIX, AIX, Mac, WM, Ubu
line containing <string> of <file>	<i>Named</i>	<file line>	Returns all lines from the given file that contain the specified string. Win, Lin, Sol, HPUNIX, AIX, Mac, WM, Ubu
line of <file>	<i>Plain</i>	<file line>	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, HPUNIX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
line starting with <string> of <file>	<i>Named</i>	<file line>	Same as line <string> of <file>, returns the lines of the given file that start with the specified string. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
section <string> of <file>	<i>Named</i>	<file section>	Returns a named section of a file. Useful for locating sections of 'ini' files. Section names are delimited by square bracket characters '[section name]'. See examples below. Win, Lin, Sol, HPUX, AIX, Mac, Ubu
sha1 of <file>	<i>Plain</i>	<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>	<i>Plain</i>	<integer>	Returns the size in bytes of a file. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
variable of <file>	<i>Plain</i>	<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.

NOTE:

The format of the string returned when casting a file using 'as string' is:

"<fileName>" "<version>" "<fileDesc>" "<fileVersion>" "<companyName>"

Where:

<fileName>	The name of the file
<version>	The 'Product Version' of the file.
<fileDesc>	The value 'FileDescription' of version block 1 of the file.
<fileVersion>	The value 'FileVersion' of version block 1 of the file.
<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>	<i>NamedGlobal</i>	Creates an application object for the name provided. Win, Lin, Sol, HPUNIX, AIX, WM, Ubu
application <string> of <folder>	<i>Named</i>	As with the file object, you can create an application object by naming it relative to its parent folder. Win, Lin, Sol, HPUNIX, AIX, 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.

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	<i>Cast</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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
find folder <string> of <folder>	<i>Named</i>	Finds the folder with the given wildcard name inside another folder. A wildcard string uses an asterisk to stand for any number of characters (including 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>	<i>NamedGlobal</i>	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>	<i>Named</i>	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>	<i>Index<symlink>Global</i>	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>	<i>Plain</i>	Iterates through the sub-folders of the folder object. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
parent folder of <filesystem object>	<i>Plain</i>	The folder containing the specified file or folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
parent folder of <symlink>	<i>Plain</i>	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	<i>PlainGlobal</i>	Returns the folder corresponding to '/'. Lin, Sol, HPUX, AIX, Ubu

Properties

Key Phrase	Form	Return Type	Description
application <string> of <folder>	<i>Named</i>	<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>	<i>Plain</i>	<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
descendant of <folder>	<i>Plain</i>	<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>	<i>Named</i>	<device file>	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>	<i>Plain</i>	<device file>	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>	<i>Plain</i>	<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

Key Phrase	Form	Return Type	Description
fifo file <string> of <folder>	<i>Named</i>	<fifo file>	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>	<i>Plain</i>	<fifo file>	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>	<i>Named</i>	<file>	Returns a file object for the named file located in the folder. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
file of <folder>	<i>Plain</i>	<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>	<i>Plain</i>	<filesystem>	Returns the filesystem on which the folder resides. Lin, Sol, HPUX, AIX, Ubu
find file <string> of <folder>	<i>Named</i>	<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 (including 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>	<i>Named</i>	<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 (including 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>	<i>Named</i>	<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>	<i>Plain</i>	<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>	<i>Named</i>	<socket file>	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>	<i>Plain</i>	<socket file>	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>	<i>Named</i>	<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>	<i>Plain</i>	<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.

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>	<i>Named</i>	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>	<i>Named</i>	<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.

File Content

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

Creation Methods

Key Phrase	Form	Description
<file content> as lowercase	<i>Cast</i>	Returns the contents of the file as lower case characters. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
<file content> as uppercase	<i>Cast</i>	Returns the contents of the file as upper case characters. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
content of <file>	<i>Plain</i>	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	<i>Cast</i>	<file content>	Returns a lowercase version of the content provided. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
<file content> as uppercase	<i>Cast</i>	<file content>	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>	<boolean>	Returns TRUE if the string is located in the content provided. Win, Lin, Sol, HP-UX, 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 usage summary instance>	Plain	Returns the version of the specified application instance. Win:8.0, Lin:8.0, Sol:8.0, HP-UX:8.0, AIX:8.0, Mac:8.0, Ubu
version of <client>	Plain	The product version of the BES application (BESClient or QnA). Lin, Sol, HP-UX, AIX, Mac:7.1, Ubu
version of <current relay>	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, HP-UX:7.0, AIX:7.0, Mac:7.1, WM, Ubu
version of <fileset>	Plain	Returns the version of the specified fileset. AIX
version of <service>	Plain	This Inspector takes the specified service property and retrieves its version (file version). Win:8.0, Lin:8.0, Sol:8.0, HP-UX: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 inspector 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>	<i>Plain</i>	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	<i>Cast</i>	<string>	Converts the mode to a string of octal numbers. Lin, Sol, HPUX, AIX, Ubu
<mode> as string	<i>Cast</i>	<string>	Converts the mode to a string. Lin, Sol, HPUX, AIX, Ubu
group mask of <mode>	<i>Plain</i>	<mode_mask>	Returns the mask for group permissions for the given mode. Lin, Sol, HPUX, AIX, Ubu
other mask of <mode>	<i>Plain</i>	<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>	<i>Plain</i>	<boolean>	Returns TRUE if setgid (the group ID flag) is set. Lin, Sol, HPUX, AIX, Ubu
setuid of <mode>	<i>Plain</i>	<boolean>	Returns TRUE if setuid (the user ID flag) is set. Lin, Sol, HPUX, AIX, Ubu
sticky of <mode>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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	<i>Cast</i>	<integer>	Converts the mode mask to an integer, 1-4. Lin, Sol, HPUX, AIX, Ubu
<mode_mask> as string	<i>Cast</i>	<string>	Converts the mode mask to a string, for example "rwx". Lin, Sol, HPUX, AIX, Ubu
execute of <mode_mask>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<boolean>	Returns TRUE if the write flag (w) of the rwx mode mask is on. (binary 010 = 2). Lin, Sol, HPUX, AIX, Ubu

Fileset

A set of files required for installing a software package.

Creation Methods

Key Phrase	Form	Description
fileset matching <string> of <object_repository>	<i>Named</i>	Returns the fileset(s) matching the specified string from within the object repository. AIX
fileset of <product>	<i>Plain</i>	An iterated property of product, which in turn is a property of the object repository. AIX

Properties

Key Phrase	Form	Return Type	Description
<fileset> as string	<i>Cast</i>	<string>	Casts a fileset as a string type. AIX
description of <fileset>	<i>Plain</i>	<string>	Returns a description of a set of installation files. AIX:7.0
lpp_name of <fileset>	<i>Plain</i>	<string>	Licensed Program Product(s) of the fileset. AIX
product of <fileset>	<i>Plain</i>	<product>	Returns the product corresponding to the specified fileset. AIX
update of <fileset>	<i>Plain</i>	<integer>	Returns the update number for the specified fileset. AIX
version of <fileset>	<i>Plain</i>	<version>	Returns the version of the specified fileset. AIX

Examples

■ filesets matching "description = 'Inventory Scout Runtime'" of object repository

► Returns the filesets matching the given string, in this case the description.

■ (lpp_name of it & " ver = " & version of it as string) of filesets matching "lpp_name = 'bos.terminfo.rte'" of object repository

► Returns a formatted list of filesets with the specified Licensed Program Product name.

■ updates of filesets matching "lpp_name = 'bos.terminfo.rte'" of object repository

► Returns the update numbers of the specified filesets.

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

Key Phrase	Form	Return Type	Description
next line of <file line>	<i>Plain</i>	<file line>	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>	<i>Plain</i>	<file line>	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

Symmlink

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 symlink	<i>Cast</i>	Casts a link in the form of a file into a symlink. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
<symlink> as symlink	<i>Cast</i>	Casts a symlink, provided for completeness. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <filesystem object>	<i>Index<filesystem object>Global</i>	Creates a symlink from the specified filesystem object. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <string>	<i>NamedGlobal</i>	Creates a symlink from the specified string. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <string> of <folder>	<i>Named</i>	Returns the named symlink from the specified folder. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
symlink <symlink>	<i>Index<symlink>Global</i>	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

Key Phrase	Form	Description
symlink of <folder>	<i>Plain</i>	<p>Returns the symlink(s) in the specified folder, whether or not they are broken.</p> <ul style="list-style-type: none"> 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. <p>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</p>

Properties

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

Key Phrase	Form	Return Type	Description
filesystem of <symlink>	<i>Plain</i>	<filesystem>	Returns the filesystem on which the symlink resides. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
gid of <symlink>	<i>Plain</i>	<integer>	Returns the group ID of the given symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
group name of <symlink>	<i>Plain</i>	<string>	Returns the group name of the specified symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
link count of <symlink>	<i>Plain</i>	<integer>	Returns an integer corresponding to the number of hard links attached to the specified symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
location of <symlink>	<i>Plain</i>	<string>	Returns a string corresponding to the directory in which the symlink is located. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
modification time of <symlink>	<i>Plain</i>	<time>	Returns the time corresponding to the modification time of the specified symlink, not the file it points to. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
name of <symlink>	<i>Plain</i>	<string>	Returns a string that is the full pathname of the specified symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
parent folder of <symlink>	<i>Plain</i>	<folder>	Creates a folder object corresponding to the parent folder of the given symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
pathname of <symlink>	<i>Plain</i>	<string>	Returns a string that contains the full pathname of the specified symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
uid of <symlink>	<i>Plain</i>	<integer>	The user ID of the user who owns this symlink. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
user name of <symlink>	<i>Plain</i>	<string>	Returns the symlink owner's (user's) name. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
value accessible of <symlink>	<i>Plain</i>	<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. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>
value of <symlink>	<i>Plain</i>	<string>	Returns the pathname that the symlink points to. <small>Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu</small>

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.

Logical Volume Manager

On AIX, the logical volume manager provides a flexible means of allocating disk space using volume groups, logical volumes, and physical volumes. A volume group is a collection of one or more physical volumes and a logical volume is an abstraction representing a pool of disk space. The disk space assigned to a logical volume appears contiguous to the user, but it may actually be distributed across one or more physical volumes within a single volume group.

Creation Methods

Key Phrase	Form	Description
logical volume manager	<i>PlainGlobal</i>	Returns the global logical volume manager on AIX systems. AIX:7.0

Properties

Key Phrase	Form	Return Type	Description
volume group <string> of <logical volume manager>	<i>Named</i>	<volume group>	On an AIX system, returns a volume group from the logical group whose name property matches the given string. AIX:7.0
volume group of <logical volume manager>	<i>Plain</i>	<volume group>	Returns the volume group corresponding to the given logical volume manager. AIX:7.0

Examples

- number of volume groups of logical volume manager
- Returns the number of volume groups in the global logical volume manager.

Logical Volume

A logical volume consists of an array of identically sized logical partitions. The partition size of a logical volume is determined by the volume group that contains it, and is the same as the volume group's physical partition size. Contiguous logical partitions within a logical volume may map to discontinuous physical partitions, possibly distributed across multiple physical volumes. A logical volume may be configured so that its logical partitions are mirrored to protect data from hardware failures. Mirroring may be configured so that each logical partition maps to either 2 or 3 physical partition mirrors.

Creation Methods

Key Phrase	Form	Description
logical volume <string> of <volume group>	<i>Named</i>	Returns a logical volume within the specified volume group whose "name" property matches the given string. AIX:7.0
logical volume of <filesystem>	<i>Plain</i>	On an AIX system, returns the logical volume corresponding to the given filesystem. AIX:7.0
logical volume of <volume group>	<i>Plain</i>	On an AIX system, returns the logical volume corresponding to the specified volume group. AIX:7.0

Properties

Key Phrase	Form	Return Type	Description
<logical volume> as string	<i>Cast</i>	<string>	Casts an AIX logical volume as a string type. AIX:7.0
label of <logical volume>	<i>Plain</i>	<string>	Returns the label of the specified logical volume. If the logical volume contains a filesystem, then then this will be the full pathname of the mount point of the file system, eg. "/home". AIX:7.0
maximum partition count of <logical volume>	<i>Plain</i>	<integer>	Returns the maximum number of logical partitions that the specified logical volume contains. A system administrator may set this value to prevent a logical volume from growing beyond a given size. AIX:7.0

Key Phrase	Form	Return Type	Description
minor number of <logical volume>	<i>Plain</i>	<integer>	Returns the minor number of the specified volume group. Each logical volume is represented by a device special file (located in directory /etc). The major number of the device special file is associated with the volume group containing the logical volume, and the minor number of the device special file is associated with the logical volume. AIX:7.0
mirror count of <logical volume>	<i>Plain</i>	<integer>	Returns the number of mirrors that the logical volume has (a value between 1 and 3). AIX:7.0
name of <logical volume>	<i>Plain</i>	<string>	On an AIX system, returns the name of the logical volume, eg. "hd1". AIX:7.0
partition count of <logical volume>	<i>Plain</i>	<integer>	Returns the number of partitions in the specified logical volume. If mirroring is not enabled for the logical volume, then each logical partition maps to a physical partition within the logical volume's volume group. If the logical volume is mirrored, then each logical partition maps to multiple physical partitions within the logical volume group. In this case, the total number of physical partitions occupied by the logical volume will be the product of the partition count and the mirror count. AIX:7.0
volume group of <logical volume>	<i>Plain</i>	<volume group>	Returns the volume group that contains the given logical volume. AIX:7.0

Examples

- logical volumes of volume group "joe" of logical volume manager
 - ▶ Returns a list of the logical volumes in the specified volume group.
- number of logical volumes of volume group "dave" of logical volume manager
 - ▶ Returns the number of logical volumes in the specified volume group.
- logical volumes of volume groups of logical volume manager
 - ▶ Returns the list of all the logical volumes in the logical volume manager.
- label of logical volume "splat" of volume group "dave" of logical volume manager
 - ▶ Returns the label associated with the specified logical volume, such as "/splat_mount_point".

■ maximum partition count of logical volume "splat" of volume group "dave" of logical volume manager

► Returns the maximum partition count that has been set for the specified volume.

■ mirror count of logical volume "splat" of volume group "dave" of logical volume manager

► Returns the number of mirrors set up for the specified volume.

■ partition count of logical volume "splat" of volume group "dave" of logical volume manager

► Returns the number of partitions existing on the specified logical volume.

Volume Group

On AIX systems, physical disk volumes are organized into volume groups. The partition size of a physical volume is determined by the volume group that it belongs to. If multiple physical volumes belong to the same volume group, then they must all have the same partition size. A typical partition size might be 16 or 32 megabytes.

Creation Methods

Key Phrase	Form	Description
volume group <string> of <logical volume manager>	<i>Named</i>	On an AIX system, returns a volume group from the logical group whose name property matches the given string. AIX:7.0
volume group of <logical volume manager>	<i>Plain</i>	Returns the volume group corresponding to the given logical volume manager. AIX:7.0
volume group of <logical volume>	<i>Plain</i>	Returns the volume group that contains the given logical volume. AIX:7.0

Properties

Key Phrase	Form	Return Type	Description
<volume group> as string	<i>Cast</i>	<string>	Casts an AIX volume group as a string type. AIX:7.0
free partition count of <volume group>	<i>Plain</i>	<integer>	Returns the number of physical partitions within the specified volume group that are not currently allocated to any logical volume. AIX:7.0

Key Phrase	Form	Return Type	Description
logical volume <string> of <volume group>	<i>Named</i>	<logical volume>	Returns a logical volume within the specified volume group whose "name" property matches the given string. AIX:7.0
logical volume of <volume group>	<i>Plain</i>	<logical volume>	On an AIX system, returns the logical volume corresponding to the specified volume group. AIX:7.0
major number of <volume group>	<i>Plain</i>	<integer>	Returns the major number of the specified volume group. Each logical volume is represented by a device special file (located in directory /etc). The major number of the device special file is associated with the volume group containing the logical volume, and the minor number of the device special file is associated with the logical volume. AIX:7.0
name of <volume group>	<i>Plain</i>	<string>	Returns the name of the volume group, eg. "rootvg". AIX:7.0
partition size of <volume group>	<i>Plain</i>	<integer>	Returns the partition size of the specified volume group (in bytes). The partition size of the volume group represents the logical and physical partition sizes for all logical volumes and physical volumes contained within the specified volume group. AIX:7.0

Examples

- `volume groups of logical volume manager`
 - Returns a list of the volume groups on an AIX system, such as joe, rootvg, etcetera.
- `volume group of logical volume "splat" of volume group "dave" of logical volume manager`
 - Returns the name of the volume group corresponding to the specified volume, in this case, "dave".
- `free partition count of volume group "dave" of logical volume manager`
 - Returns the number of free partitions in the specified volume group.
- `logical volumes of volume group "joe" of logical volume manager`
 - Returns a list of the logical volumes in the specified volume group.
- `number of logical volumes of volume group "dave" of logical volume manager`
 - Returns the number of logical volumes in the specified volume group.

- logical volumes of volume groups of logical volume manager
 - ▶ Returns the list of all the logical volumes in the logical volume manager.
- major number of volume group "dave" of logical volume manager
 - ▶ Returns the major number of the specified volume group.
- name of volume group "dave" of logical volume manager
 - ▶ Returns "dave".
- partition size of volume group "dave" of logical volume manager
 - ▶ Returns the partition size of the specified volume group (in bytes).

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	<i>PlainGlobal</i>	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 storage folder>	<i>Plain</i>	<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
<filesystem object> as device file	<i>Cast</i>	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	<i>Cast</i>	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>	<i>Index<filesystem object>Global</i>	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>	<i>NamedGlobal</i>	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>	<i>Named</i>	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>	<i>Index<symlink>Global</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	<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>	<i>Plain</i>	<filesystem>	Returns the drive associated with the specified device file. <small>Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu</small>
filesystem of <device file>	<i>Plain</i>	<filesystem>	Returns the filesystem object corresponding to the specified device file. <small>Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu</small>
major of <device file>	<i>Plain</i>	<integer>	Returns the major number of the specified device file. <small>Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu</small>
minor of <device file>	<i>Plain</i>	<integer>	Returns the minor number of the specified device file. <small>Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu</small>

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.

Creation Methods

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

Key Phrase	Form	Description
fifo file <symlink>	<i>Index<symlink>Global</i>	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>	<i>Plain</i>	Returns the list of FIFO file in the given folder. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
drive of <fifo file>	<i>Plain</i>	<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>	<i>Plain</i>	<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	<i>Cast</i>	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	<i>Cast</i>	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>	<i>Index<filesystem object>Global</i>	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>	<i>NamedGlobal</i>	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>	<i>Named</i>	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>	<i>Index<symlink>Global</i>	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>	<i>Plain</i>	Returns the socket file(s) in the specified folder. Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Ubu

Properties

Key Phrase	Form	Return Type	Description
drive of <socket file>	<i>Plain</i>	<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>	<i>Plain</i>	<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 system. This chapter also covers the keywords used to describe the vendors and types of the various processors that coexist in a typical computer system. Some of these Inspectors are system-specific, but are included to provide cross-platform compatibility.

Bios

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

Creation Methods

Key Phrase	Form	Description
bios	<i>PlainGlobal</i>	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

Properties

Key Phrase	Form	Return Type	Description
<bios> as string	<i>Cast</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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	<i>PlainGlobal</i>	Creates the global operating system object. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
<operating system> as string	<i>Cast</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<string>	Returns a string corresponding to the build number of the OS. Lin, Sol, HPUX, AIX, Mac, Ubu
codename of <operating system>	<i>Plain</i>	<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 system>	<i>Plain</i>	<boolean>	Returns TRUE if the client computer is a Macintosh. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
name of <operating system>	<i>Plain</i>	<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>	<i>Plain</i>	<string>	Information about the release of the operating system, formatted as a <version> on the Macintosh, but a <string> on UNIX and Windows. Win, Lin, Sol, HPUX, AIX, , WM, Ubu
unix of <operating system>	<i>Plain</i>	<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>	<i>Plain</i>	<time interval>	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>	<i>Plain</i>	<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.

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	<i>PlainGlobal</i>	Creates the object associated with the 'Primary' processor. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
processor	<i>PlainGlobal</i>	Iterates through the processors in the system. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
processor <integer>	<i>NumberedGlobal</i>	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 <processor>	<i>Plain</i>	<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 <processor>	<i>Plain</i>	<string>	A string representing the family of the CPU. Sol, AIX
id of <processor>	<i>Plain</i>	<integer>	Returns an integer corresponding to the ID of the specified processor. Sol, AIX
index of <processor>	<i>Plain</i>	<integer>	Returns the ordinal number of the processor on a multi processor machine. Lin, Sol, HPUX, AIX, Ubu
model of <processor>	<i>Plain</i>	<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 <processor>	<i>Plain</i>	<hertz>	Returns the speed of the processor in Hertz. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
type of <processor>	<i>Plain</i>	<string>	Numeric type of the CPU. Values include: <ul style="list-style-type: none"> • 0 - standard • 1 - overdrive • 2 - dual CPU capable • 3 - reserved • Note: this Inspector returns an <integer> type as on Windows platforms. Sol, AIX, Mac

Examples

- `number of processors > 1`
- ▶ Returns TRUE if the computer is a multi-processor system.
- `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.

Creation Methods

Key Phrase	Form	Description
ram	<i>PlainGlobal</i>	Creates the object that can be accessed to inspect the amount of ram on the machine. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
random access memory	<i>PlainGlobal</i>	Same as 'ram'. Win, Lin, Sol, HPUX, AIX, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
free amount of <ram>	<i>Plain</i>	<integer>	Returns the amount of system RAM currently unused, in bytes. Lin, Sol, HPUX, AIX, Ubu

Key Phrase	Form	Return Type	Description
size of <ram>	<i>Plain</i>	<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>	<i>Plain</i>	<integer>	Same as size of <ram>. Lin, Sol, HPUX, AIX, Ubu
used amount of <ram>	<i>Plain</i>	<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	<i>PlainGlobal</i>	Returns a service object for the main gathering service, typically located on the main server. • Note: On a Macintosh, returns <nothing>. Included for compatibility. Win, Lin, Sol, HPUX, AIX, , Ubu
relay service	<i>PlainGlobal</i>	Returns a service object for the relay component of BES. • Note: On a Macintosh, this returns <nothing>. Win, Lin, Sol, HPUX, AIX, , Ubu
running service <string>	<i>NamedGlobal</i>	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>	<i>NamedGlobal</i>	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

Properties

Key Phrase	Form	Return Type	Description
state of <service>	<i>Plain</i>	<string>	Returns one of Continuing, Pausing, Paused, Running, Starting, Stopping, Stopped, Unknown. Win, Lin, Sol, HPUX, AIX, Ubu
version of <service>	<i>Plain</i>	<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.

Creation Methods

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

Properties

Key Phrase	Form	Return Type	Description
command line argument <integer> of <process>	<i>Numbered</i>	<string>	Returns the Nth command line argument of the specified process. Lin:8.0, Sol:8.0, AIX:8.0, Ubu

Key Phrase	Form	Return Type	Description
command line argument of <process>	<i>Plain</i>	<string>	Returns the command line arguments of the specified process. Lin:8.0, Sol:8.0, AIX:8.0, Ubu
id of <process>	<i>Plain</i>	<integer>	Returns the integer ID of the specified process. Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
name of <process>	<i>Plain</i>	<string>	Returns the name (as a string) of the specified process. Win:8.0, Lin, Sol, HPUX, AIX, Mac, Ubu
pid of <process>	<i>Plain</i>	<integer>	Returns the integer process ID for the specified process. Lin, Sol, HPUX, AIX, Mac, Ubu
process id of <process>	<i>Plain</i>	<integer>	Returns the integer process ID for the specified process. Lin, Sol, HPUX, AIX, Mac, Ubu

Examples

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

Swap

This object lets you inspect the properties of your swap space.

Creation Methods

Key Phrase	Form	Description
swap	<i>PlainGlobal</i>	Creates an object containing information about the swap partition. Lin, HPUX, AIX, Ubu

Properties

Key Phrase	Form	Return Type	Description
free amount of <swap>	<i>Plain</i>	<integer>	Returns the amount of the swap partition currently unused, in bytes. Lin, HPUX, AIX, Ubu

Key Phrase	Form	Return Type	Description
size of <swap>	<i>Plain</i>	<integer>	Returns the size, in bytes, of the swap partition. Lin, HPUX, AIX, Ubu
total amount of <swap>	<i>Plain</i>	<integer>	Same as size of <swap>. Lin, HPUX, AIX, Ubu
used amount of <swap>	<i>Plain</i>	<integer>	Returns the amount of the swap partition currently in use, in bytes. Lin, HPUX, AIX, Ubu

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	<i>PlainGlobal</i>	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	<i>PlainGlobal</i>	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	<i>Cast</i>	<string>	Returns the language of the system locale. Win, Lin, Sol, HPUX, AIX, WM, Ubu
platform id of <language>	<i>Plain</i>	<string>	Returns the string resulting from a call to <code>setlocale(LC_TYPE, "")</code> . 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

Key Phrase	Form	Return Type	Description
primary language of <language>	<i>Plain</i>	<primary language>	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 <language>	<i>Plain</i>	Extracts the primary language identifier from a language. Win, Lin, Sol, HPUX, AIX, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
<primary language> as string	<i>Cast</i>	<string>	Returns the primary language. Win, Lin, Sol, HPUX, AIX, WM, Ubu

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	<i>PlainGlobal</i>	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	<i>Cast</i>	<string>	Casts a runlevel object as a string. Lin:7.0, Sol:7.0, HPUX:7.0, AIX:7.0, Ubu
effective time of <runlevel>	<i>Plain</i>	<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>	<i>Plain</i>	<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

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	<i>PlainGlobal</i>	Creates the site object corresponding to the site that provided the current Fixlet. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site	<i>PlainGlobal</i>	Iterates through all the sites. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site <string>	<i>NamedGlobal</i>	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>	<i>Plain</i>	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

Properties

Key Phrase	Form	Return Type	Description
client folder of <site>	<i>Plain</i>	<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>	<i>Plain</i>	<fixlet>	Iterates through the Fixlet messages of the specified site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
gather schedule authority of <site>	<i>Plain</i>	<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>	<i>Plain</i>	<time interval>	Returns the time interval between automatic gathering of site content. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
group <integer> of <site>	<i>Numbered</i>	<site group>	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>	<i>Plain</i>	<time>	Returns the time of last successful gathering from the site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
masthead of <site>	<i>Plain</i>	<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>	<i>Plain</i>	<string>	The name of the site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant fixlet of <site>	<i>Plain</i>	<fixlet>	Iterates through the Relevant Fixlet messages for the specified site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant offer action of <site>	<i>Plain</i>	<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>	<i>Named</i>	<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>	<i>Plain</i>	<setting>	Returns one or more settings from the site settings. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site tag of <site>	<i>Plain</i>	<string>	Returns the last component of the specified site's url, eg. 'actionsite', 'enterprisesecurity', etcetera. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site version list of <site>	<i>Plain</i>	<site version list>	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>	<i>Plain</i>	<time>	Returns the time that the current machine began subscribing to the site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
type of <site>	<i>Plain</i>	<string>	Returns one of the following 4 literal strings: <ul style="list-style-type: none"> • Master Action Site • Operator Site • Custom Site • Fixlet Site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
url of <site>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Numbered</i>	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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	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	<i>PlainGlobal</i>	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>	<i>Plain</i>	This Inspector iterates over all the Fixlet messages in the given site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant fixlet of <site>	<i>Plain</i>	Iterates over all the relevant Fixlet messages in the specified site. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
header <string> of <fixlet>	<i>Named</i>	<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>	<i>Plain</i>	<fixlet_header>	Iterates over all the headers of the Fixlet message. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
id of <fixlet>	<i>Plain</i>	<integer>	Returns the numeric ID number of the specified Fixlet message. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
relevance of <fixlet>	<i>Plain</i>	<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>	<i>Plain</i>	<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.

Creation Methods

Key Phrase	Form	Description
header <string> of <fixlet>	<i>Named</i>	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>	<i>Plain</i>	Iterates over all the headers of the Fixlet message. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
name of <fixlet_header>	<i>Plain</i>	<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>	<i>Plain</i>	<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	<i>PlainGlobal</i>	Returns the client object corresponding to the BigFix application evaluating the current relevance expression. Win, Lin, Sol, HP-UX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
administrator <string> of <client>	<i>Named</i>	<setting>	If the administrator named in the <string> is enabled on the given <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, HP-UX, AIX, Mac, WM, Ubu
administrator of <client>	<i>Plain</i>	<setting>	Returns one or more settings each representing an administrator of the client. Win, Lin, Sol, HP-UX, AIX, Mac, WM, Ubu
brand of <client>	<i>Plain</i>	<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, HP-UX:8.1, AIX:8.1, Mac:8.1, Ubu
evaluationcycle of <client>	<i>Plain</i>	<evaluation cycle>	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, HP-UX:8.0, AIX:8.0, Mac:8.0, Ubu

Key Phrase	Form	Return Type	Description
registration address of <client>	<i>Plain</i>	<ipv4or6 address>	This Inspector returns the IP address (as an <ipv4or6 address> type) 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 cidr address of <client>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<ipv4or6 address>	This Inspector returns the subnet address (as an <ipv4or6 address> type) 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
setting <string> of <client>	<i>Named</i>	<setting>	Returns a client setting whose name matches the string provided from the client settings. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
setting of <client>	<i>Plain</i>	<setting>	Returns one or more settings from the client settings. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
upload progress of <client>	<i>Plain</i>	<string>	Returns a status message string indicating No Progress, Errors or a string like the following to indicate the upload progress: <ul style="list-style-type: none"> • <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
version of <client>	<i>Plain</i>	<version>	The product version of the BES application (BESClient or QnA). <ul style="list-style-type: none"> • Note: On the Macintosh only, this Inspector returns a <string>. Lin, Sol, HPUX, AIX, Mac:7.1, Ubu

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

Properties

Key Phrase	Form	Return Type	Description
<setting> as string	<i>Cast</i>	<string>	Returns a string formatted as <name>=<value> for the setting. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
effective date of <setting>	<i>Plain</i>	<time>	Returns the date when the setting was last modified. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
enabled of <setting>	<i>Plain</i>	<boolean>	Returns TRUE if the specified setting is enabled. Win:7.0, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <setting>	<i>Plain</i>	<string>	Returns the name of the setting. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
value of <setting>	<i>Plain</i>	<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	<i>PlainGlobal</i>	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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<integer range>	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

Key Phrase	Form	Return Type	Description
full gateway address of <selected server>	<i>Plain</i>	<ipv4or6 address>	<p>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.</p> <p>Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu</p>
gateway address <integer> of <selected server>	<i>Numbered</i>	<ipv4or6 address>	<p>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.</p> <ul style="list-style-type: none"> • Prior to version 8.0, this inspector returned an <ipv4 address> type. <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>
gateway address of <selected server>	<i>Plain</i>	<ipv4or6 address>	<p>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.</p> <ul style="list-style-type: none"> • Prior to version 8.0, this inspector returned an <ipv4 address> type. <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>
ip address of <selected server>	<i>Plain</i>	<ipv4or6 address>	<p>The ipv4or6 address to which reports are sent.</p> <ul style="list-style-type: none"> • Prior to version 8.0, this inspector returned an <ipv4 address> type. <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>
name of <selected server>	<i>Plain</i>	<string>	<p>The DNS name of the server, if known.</p> <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>
port number of <selected server>	<i>Plain</i>	<integer>	<p>The port number to which reports are sent.</p> <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>
priority of <selected server>	<i>Plain</i>	<integer>	<p>The priority assigned to the server by the BES console. Servers with low priorities are preferred to servers with high priority.</p> <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>
weight of <selected server>	<i>Plain</i>	<integer>	<p>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.</p> <p>Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu</p>

Current Relay

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

Creation Methods

Key Phrase	Form	Description
current relay	<i>PlainGlobal</i>	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

Properties

Key Phrase	Form	Return Type	Description
version of <current relay>	<i>Plain</i>	<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	<i>PlainGlobal</i>	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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	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>	<i>Plain</i>	<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>	<i>Plain</i>	<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	<i>PlainGlobal</i>	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>	<i>NamedGlobal</i>	Returns the usage summary for the application specified in <string>. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
first start time of <application usage summary>	<i>Plain</i>	<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 usage summary>	<i>Plain</i>	<application usage summary instance>	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 summary>	<i>Plain</i>	<time>	Returns the last time this specified application was started. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last time seen of <application usage summary>	<i>Plain</i>	<time>	Returns the last time this specified application was seen running. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <application usage summary>	<i>Plain</i>	<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 usage summary>	<i>Plain</i>	<boolean>	Returns TRUE if the specified application is currently running. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
total duration of <application usage summary>	<i>Plain</i>	<time interval>	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 summary>	<i>Plain</i>	<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 usage summary>	<i>Plain</i>	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

Properties

Key Phrase	Form	Return Type	Description
first start time of <application usage summary instance>	<i>Plain</i>	<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 summary instance>	<i>Plain</i>	<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 summary instance>	<i>Plain</i>	<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
name of <application usage summary instance>	<i>Plain</i>	<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

Key Phrase	Form	Return Type	Description
size of <application usage summary instance>	<i>Plain</i>	<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 summary instance>	<i>Plain</i>	<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 summary instance>	<i>Plain</i>	<time interval>	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 summary instance>	<i>Plain</i>	<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 usage summary instance>	<i>Plain</i>	<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	<i>PlainGlobal</i>	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	<i>PlainGlobal</i>	Creates the global object containing client licensing information. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
allow unmentioned site of <license>	<i>Plain</i>	<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 <license>	<i>Plain</i>	<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>	<i>Plain</i>	<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 <license>	<i>Plain</i>	<x509 certificate>	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>	<i>Plain</i>	<boolean>	Returns TRUE if client is running an evaluation license. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
expiration date of <license>	<i>Plain</i>	<time>	Returns date when license will expire. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
expiration state of <license>	<i>Plain</i>	<string>	Returns a string, one of "Unrestricted", "Grace" or "Restricted". Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
fips mode of <license>	<i>Plain</i>	<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>	<i>Plain</i>	<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 <license>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<bes 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 <license>	<i>Plain</i>	<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 <license>	<i>Plain</i>	<string>	Returns one of "Unrestricted", "Grace" or "Restricted". Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
seat of <license>	<i>Plain</i>	<integer>	The license number assigned to the client. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
site number of <license>	<i>Plain</i>	<integer>	A unique number assigned to the Action Site certificate. Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
start date of <license>	<i>Plain</i>	<time>	The starting date specified for the BigFix license. Win, Lin, Sol, HPUX, AIX, Mac:7.1, WM, Ubu
type of <license>	<i>Plain</i>	<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

Examples

- 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>	<i>Plain</i>	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

Properties

Key Phrase	Form	Return Type	Description
computer count of <bes product>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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 <bes product>	<i>Plain</i>	<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 <bes product>	<i>Plain</i>	<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	<i>PlainGlobal</i>	Creates the one and only environment object. Win, Lin, Sol, HPUX, AIX, Mac, Ubu

Properties

Key Phrase	Form	Return Type	Description
variable <string> of <environment>	<i>Named</i>	<environment variable>	Returns an environment variable that matches the given name. Win, Lin, Sol, HPUX, AIX, Mac, Ubu
variable of <environment>	<i>Plain</i>	<environment variable>	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.

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>	<i>Named</i>	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>	<i>Plain</i>	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	<i>Cast</i>	<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>	<i>Plain</i>	<string>	Returns the name of the variable. Win, Lin, Sol, HPUX, AIX, Mac, Ubu
value of <environment variable>	<i>Plain</i>	<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	<i>PlainGlobal</i>	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

Properties

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

Properties

Key Phrase	Form	Return Type	Description
name of <user>	<i>Plain</i>	<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>	<i>Plain</i>	<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	<i>PlainGlobal</i>	Creates an action object corresponding to the BigFix Action currently being parsed. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
action <integer>	<i>NumberedGlobal</i>	Creates an action object matching the <integer> id. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
active action	<i>PlainGlobal</i>	Creates an action object corresponding to the currently executing action. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
relevant offer action of <site>	<i>Plain</i>	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>	<i>Plain</i>	<boolean>	Returns TRUE if the action is currently running (active). Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
active start time of <action>	<i>Plain</i>	<time>	Returns the time the action started. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
complete time of <action>	<i>Plain</i>	<time>	Returns the time the action completed. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
constrained of <action>	<i>Plain</i>	<boolean>	Returns TRUE if action is unable to run yet. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
exit code of <action>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<integer>	Returns the numeric ID associated with the specified Action. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
last change time of <action>	<i>Plain</i>	<time>	Returns the time when the action state last changed. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
offer accepted of <action>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<integer>	Returns the Fixlet id that contained the action. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Return Type	Description
parameter <string> of <action>	<i>Named</i>	<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
pending login of <action>	<i>Plain</i>	<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
pending of <action>	<i>Plain</i>	<boolean>	Returns TRUE if action is available to run. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
pending restart of <action>	<i>Plain</i>	<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>	<i>Plain</i>	<time>	Returns the time the action became pending. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
status of <action>	<i>Plain</i>	<string>	Returns one of the following strings: <ul style="list-style-type: none"> • 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>	<i>Plain</i>	<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

Examples

- 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	<i>PlainGlobal</i>	Creates an object containing properties of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Properties

Key Phrase	Form	Return Type	Description
adapter of <network>	<i>Plain</i>	<network adapter>	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>	<i>Plain</i>	<network adapter>	This Inspector returns the same as 'adapter of <network>', but it includes loopback and tunnels. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
find adapter <string> of <network>	<i>Named</i>	<network adapter>	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 <network>	<i>Numbered</i>	<network interface>	Returns the Nth interface of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
interface of <network>	<i>Plain</i>	<network interface>	Returns all the interfaces of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ip interface <integer> of <network>	<i>Numbered</i>	<network ip interface>	Returns the Nth ip interface of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ip interface of <network>	<i>Plain</i>	<network ip interface>	Returns all the ip interfaces of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ipv4 interface of <network>	<i>Plain</i>	<network adapter interface>	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>	<i>Plain</i>	<network adapter interface>	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>	<i>Plain</i>	<network adapter interface>	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

Examples

- 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>	<i>Numbered</i>	Creates an object with the specified network interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
interface of <network>	<i>Plain</i>	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>	<i>Plain</i>	<integer>	Returns an family designator of the address family (i.e., 2=AF_INET). 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>	<i>Numbered</i>	Creates an object with the specified ip interface of the network. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
ip interface of <network>	<i>Plain</i>	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

Properties

Key Phrase	Form	Return Type	Description
address of <network ip interface>	<i>Plain</i>	<ipv4 address>	Returns the ip address of the ip interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
alias of <network ip interface>	<i>Plain</i>	<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 ip interface>	<i>Plain</i>	<ipv4 address>	Returns the broadcast address of the specified interface as an IPv4 type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
broadcast support of <network ip interface>	<i>Plain</i>	<boolean>	Indicates that broadcast messages are supported by the ip interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
cidr address of <network ip interface>	<i>Plain</i>	<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 ip interface>	<i>Plain</i>	<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 ip interface>	<i>Plain</i>	<boolean>	Indicates that the particular network ip interface is a loopback interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
mac address of <network ip interface>	<i>Plain</i>	<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 '-'. Lin, Sol, HPUX, AIX, Mac:8.0, Ubu
multicast support of <network ip interface>	<i>Plain</i>	<boolean>	Indicates that multicast messages are supported by the ip interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
name of <network ip interface>	<i>Plain</i>	<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 ip interface>	<i>Plain</i>	<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 ip interface>	<i>Plain</i>	<ipv4 address>	Returns the subnet address (IPv4) to which the specified interface belongs. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet mask of <network ip interface>	<i>Plain</i>	<ipv4 address>	Returns the subnet mask (IPv4) of the specified network ip interface. <ul style="list-style-type: none"> As of version 8.0, this Inspector type is derived from an <ipv4or6 address> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
up of <network ip interface>	<i>Plain</i>	<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

Examples

- 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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	This Inspector returns the same as 'adapter of <network>', but it includes loopback and tunnels. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
find adapter <string> of <network>	<i>Named</i>	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

Properties

Key Phrase	Form	Return Type	Description
address of <network adapter>	<i>Plain</i>	<ipv4 address>	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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<network adapter interface>	Returns the IPv4 interface of the specified network adapter as a <network adapter ip interface> type. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv4or6 interface of <network adapter>	<i>Plain</i>	<network adapter interface>	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
ipv6 interface of <network adapter>	<i>Plain</i>	<network adapter interface>	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
loopback of <network adapter>	<i>Plain</i>	<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 <network adapter>	<i>Plain</i>	<string>	Returns the mac address of the network adapter. Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
multicast support of <network adapter>	<i>Plain</i>	<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 adapter>	<i>Plain</i>	<string>	Returns the name of the network adapter. Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
subnet address of <network adapter>	<i>Plain</i>	<ipv4 address>	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>	<i>Plain</i>	<ipv4 address>	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>	<i>Plain</i>	<boolean>	Returns TRUE if the specified network adaoter 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>	<i>Plain</i>	Returns the IPv4 interface of the specified network adapter as a <network adapter ip interface> type. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
ipv4 interface of <network>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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

Properties

Key Phrase	Form	Return Type	Description
adapter of <network adapter interface>	<i>Plain</i>	<network adapter>	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>	<i>Plain</i>	<ipv4or6 address>	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 interface>	<i>Plain</i>	<ipv4or6 address>	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 interface>	<i>Plain</i>	<boolean>	Returns TRUE if the given network adapter interface has broadcast support. 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>	<i>Plain</i>	<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>	<i>Plain</i>	<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. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
loopback of <network adapter interface>	<i>Plain</i>	<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 interface>	<i>Plain</i>	<string>	Returns the MAC address of the specified network adapter interface as a string type. Win:8.0, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:8.0, Ubu
multicast support of <network adapter interface>	<i>Plain</i>	<boolean>	Returns TRUE if the specified interface supports multicasting. 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 interface>	<i>Plain</i>	<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 interface>	<i>Plain</i>	<ipv4or6 address>	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>	<i>Plain</i>	<ipv4or6 address>	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
up of <network adapter interface>	<i>Plain</i>	<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>	<i>Plain</i>	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 interface>	<i>Plain</i>	Creates an object with the ip address of the interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
broadcast address of <network ip interface>	<i>Plain</i>	Returns the broadcast address of the specified interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet address of <network adapter>	<i>Plain</i>	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 ip interface>	<i>Plain</i>	Creates an object with the subnet address of the network interface. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
subnet mask of <network adapter>	<i>Plain</i>	Returns the subnet mask of the network adapter. Win, Lin:8.0, Sol:8.0, HPUX:8.0, AIX:8.0, Mac:7.1, WM, Ubu
subnet mask of <network ip interface>	<i>Plain</i>	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>	<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
<ipv4 address> {cmp} <string>	<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

Examples

■ 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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Plain</i>	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>	<i>Numbered</i>	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. <ul style="list-style-type: none"> • Prior to version 8.0, this inspector returned an <ipv4 address> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
gateway address of <selected server>	<i>Plain</i>	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. <ul style="list-style-type: none"> • Prior to version 8.0, this inspector returned an <ipv4 address> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu

Key Phrase	Form	Description
ip address of <selected server>	<i>Plain</i>	The ipv4or6 address to which reports are sent. <ul style="list-style-type: none"> • Prior to version 8.0, this inspector created an <ipv4 address> type. Win, Lin, Sol, HPUX, AIX, Mac, WM, Ubu
registration address of <client>	<i>Plain</i>	This Inspector returns the IP address (as an <ipv4or6 address> type) 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>	<i>Plain</i>	This Inspector returns the subnet address (as an <ipv4or6 address> type) 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
subnet address of <network adapter interface>	<i>Plain</i>	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>	<i>Plain</i>	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.

Product

The product object contains properties (such as vendor and revision) of the associated software product.

- On AIX, products are installed into an Object Repository.
- On HPUX products are installed in the Software Depot.

Creation Methods

Key Phrase	Form	Description
product <string> of <object_repository>	<i>Named</i>	This is a named property of the object repository. AIX
product of <fileset>	<i>Plain</i>	Returns the product corresponding to the specified fileset. AIX
product of <object_repository>	<i>Plain</i>	Returns a list of the products in the object repository. AIX

Properties

Key Phrase	Form	Return Type	Description
<product> as string	<i>Cast</i>	<string>	Brief text string identifying a product including the tag and version. HPUX, AIX
fileset of <product>	<i>Plain</i>	<fileset>	Returns a list of the filesets (installable software packages) in the specified product. AIX
name of <product>	<i>Plain</i>	<string>	Returns the name of the specified product. AIX

Examples

- `product "BESAgent" of object repository as string`
▶ Returns the full name of the product, such as "BESAgent 4.0.3.7".
- `product "BESAgent" of software depot as string`
▶ Returns the full name of the product, such as "BESAgent 4.0.3.7".
- `filesets of products "bos.terminfo" of object repository`
▶ Returns a list of the various versions of the specified program from the object repository.

Object_repository

A database corresponding to installable software products on AIX computers.

CAUTION: Versions of these Inspectors prior to 7.0 are buggy. To switch them off, set `_BESClient_Inspector_DisableODM` to 1. A Fixlet or Task that uses a disabled inspector will report false; retrieved properties that request a disabled inspector value will report an error. For the latest information on issues surrounding the ODM inspectors, search the BigFix support knowledge base.

Creation Methods

Key Phrase	Form	Description
object repository	<i>PlainGlobal</i>	This is the global inspector object; all installed software inspectors are properties of this. AIX

Properties

Key Phrase	Form	Return Type	Description
fileset matching <string> of <object_repository>	<i>Named</i>	<fileset>	Returns the fileset(s) matching the specified string from within the object repository. AIX
product <string> of <object_repository>	<i>Named</i>	<product>	Returns the named product from the object repository. AIX
product of <object_repository>	<i>Plain</i>	<product>	Returns a list of the products in the object repository. AIX

Examples

- `exists object repository`
▶ Returns TRUE if the object repository exists.
- `products whose (name of it contains "bos") of object repository`
▶ Returns a list of the software products that have "bos" in their name.

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	<i>PlainGlobal</i>	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

Properties

Key Phrase	Form	Return Type	Description
<power level> as string	<i>Cast</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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>	<i>Plain</i>	<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

Examples

- `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>	abbrs	<html>	<html>	<i>Named</i>	core
abbr <string> of <string>	abbrs	<html>	<string>	<i>Named</i>	core
abbr of <html>	abbrs	<html>	<html>	<i>Plain</i>	core
abbr of <string>	abbrs	<html>	<string>	<i>Plain</i>	core
absolute value of <hertz>	absolute values	<hertz>	<hertz>	<i>Plain</i>	core
absolute value of <integer>	absolute values	<integer>	<integer>	<i>Plain</i>	core
absolute value of <time interval>	absolute values	<time interval>	<time interval>	<i>Plain</i>	core
accessed time of <filesystem object>	accessed times	<time>	<filesystem object>	<i>Plain</i>	aix
accessed time of <symlink>	accessed times	<time>	<symlink>	<i>Plain</i>	aix
acronym <string> of <html>	acronyms	<html>	<html>	<i>Named</i>	core
acronym <string> of <string>	acronyms	<html>	<string>	<i>Named</i>	core
acronym of <html>	acronyms	<html>	<html>	<i>Plain</i>	core
acronym of <string>	acronyms	<html>	<string>	<i>Plain</i>	core
action	actions	<action>	<world>	<i>PlainGlobal</i>	aix
action <integer>	actions	<action>	<world>	<i>NumberedGlobal</i>	aix

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

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

Key Phrase	Plural	Creates a	From a	Form	Ref
april <integer> of <integer>	aprils	<date>	<integer>	<i>Numbered</i>	core
april of <integer>	aprils	<month and year>	<integer>	<i>Plain</i>	core
architecture of <operating system>	architectures	<string>	<operating system>	<i>Plain</i>	aix
august	augusts	<month>	<world>	<i>PlainGlobal</i>	core
august <integer>	augusts	<day of year>	<world>	<i>NumberedGlobal</i>	core
august <integer> of <integer>	augusts	<date>	<integer>	<i>Numbered</i>	core
august of <integer>	augusts	<month and year>	<integer>	<i>Plain</i>	core
average of <evaluation cycle>	averages	<integer>	<evaluation cycle>	<i>Plain</i>	aix
b <string> of <html>	bs	<html>	<html>	<i>Named</i>	core
b <string> of <string>	bs	<html>	<string>	<i>Named</i>	core
b of <html>	bs	<html>	<html>	<i>Plain</i>	core
b of <string>	bs	<html>	<string>	<i>Plain</i>	core
base <string> of <html>	bases	<html>	<html>	<i>Named</i>	core
base <string> of <string>	bases	<html>	<string>	<i>Named</i>	core
base of <html>	bases	<html>	<html>	<i>Plain</i>	core
base of <string>	bases	<html>	<string>	<i>Plain</i>	core
bes license	bes licenses	<license>	<world>	<i>PlainGlobal</i>	aix
big <string> of <html>	bigs	<html>	<html>	<i>Named</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
big <string> of <string>	bigs	<html>	<string>	<i>Named</i>	core
big of <html>	bigs	<html>	<html>	<i>Plain</i>	core
big of <string>	bigs	<html>	<string>	<i>Plain</i>	core
binary operator <string>	binary operators	<binary operator>	<world>	<i>NamedGlobal</i>	core
binary operator returning <type>	binary operators returning	<binary operator>	<world>	<i>Index<type>Global</i>	core
bit <integer>	bits	<bit set>	<world>	<i>NumberedGlobal</i>	core
bit <integer> of <bit set>	bits	<boolean>	<bit set>	<i>Numbered</i>	core
bit <integer> of <integer>	bits	<boolean>	<integer>	<i>Numbered</i>	core
bit set <string>	bit sets	<bit set>	<world>	<i>NamedGlobal</i>	core
blockquote <string> of <html>	blockquotes	<html>	<html>	<i>Named</i>	core
blockquote <string> of <string>	blockquotes	<html>	<string>	<i>Named</i>	core
blockquote of <html>	blockquotes	<html>	<html>	<i>Plain</i>	core
blockquote of <string>	blockquotes	<html>	<string>	<i>Plain</i>	core
body <string> of <html>	bodys	<html>	<html>	<i>Named</i>	core
body <string> of <string>	bodys	<html>	<string>	<i>Named</i>	core
body of <html>	bodys	<html>	<html>	<i>Plain</i>	core
body of <string>	bodys	<html>	<string>	<i>Plain</i>	core
boolean <string>	booleans	<boolean>	<world>	<i>NamedGlobal</i>	core

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

Key Phrase	Plural	Creates a	From a	Form	Ref
cast <string>	casts	<cast>	<world>	<i>NamedGlobal</i>	core
cast from of <type>	casts from	<cast>	<type>	<i>Plain</i>	core
cast returning <type>	casts returning	<cast>	<world>	<i>Index<type>Global</i>	core
change time of <symlink>	change times	<time>	<symlink>	<i>Plain</i>	aix
character <integer>	characters	<string>	<world>	<i>NumberedGlobal</i>	core
character <integer> of <string>	characters	<substring>	<string>	<i>Numbered</i>	core
character of <string>	characters	<substring>	<string>	<i>Plain</i>	core
cidr address of <network adapter interface>	cidr addresses	<string>	<network adapter interface>	<i>Plain</i>	aix
cidr address of <network adapter>	cidr addresses	<string>	<network adapter>	<i>Plain</i>	aix
cidr address of <network ip interface>	cidr addresses	<string>	<network ip interface>	<i>Plain</i>	aix
cidr string of <network adapter interface>	cidr strings	<string>	<network adapter interface>	<i>Plain</i>	aix
cidr string of <network adapter>	cidr strings	<string>	<network adapter>	<i>Plain</i>	aix
cidr string of <network ip interface>	cidr strings	<string>	<network ip interface>	<i>Plain</i>	aix
cite <string> of <html>	cites	<html>	<html>	<i>Named</i>	core
cite <string> of <string>	cites	<html>	<string>	<i>Named</i>	core
cite of <html>	cites	<html>	<html>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
cite of <string>	cites	<html>	<string>	<i>Plain</i>	core
client	clients	<client>	<world>	<i>PlainGlobal</i>	aix
client cryptography	client cryptographyes	<client_cryptograp hy>	<world>	<i>PlainGlobal</i>	aix
client folder of <site>	client folders	<folder>	<site>	<i>Plain</i>	aix
client license	client licenses	<license>	<world>	<i>PlainGlobal</i>	aix
code <string> of <html>	codes	<html>	<html>	<i>Named</i>	core
code <string> of <string>	codes	<html>	<string>	<i>Named</i>	core
code of <html>	codes	<html>	<html>	<i>Plain</i>	core
code of <string>	codes	<html>	<string>	<i>Plain</i>	core
codename of <operating system>	codenames	<string>	<operating system>	<i>Plain</i>	aix
col <string> of <html>	cols	<html>	<html>	<i>Named</i>	core
col <string> of <string>	cols	<html>	<string>	<i>Named</i>	core
col of <html>	cols	<html>	<html>	<i>Plain</i>	core
col of <string>	cols	<html>	<string>	<i>Plain</i>	core
colgroup <string> of <html>	colgroups	<html>	<html>	<i>Named</i>	core
colgroup <string> of <string>	colgroups	<html>	<string>	<i>Named</i>	core
colgroup of <html>	colgroups	<html>	<html>	<i>Plain</i>	core
colgroup of <string>	colgroups	<html>	<string>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
command line argument <integer> of <process>	command line arguments	<string>	<process>	<i>Numbered</i>	aix
command line argument of <process>	command line arguments	<string>	<process>	<i>Plain</i>	aix
common name of <license>	common names	<string>	<license>	<i>Plain</i>	aix
competition size of <selected server>	competition sizes	<integer>	<selected server>	<i>Plain</i>	aix
competition weight of <selected server>	competition weights	<integer>	<selected server>	<i>Plain</i>	aix
complete time of <action>	complete times	<time>	<action>	<i>Plain</i>	aix
component <integer> of <site version list>	components	<integer>	<site version list>	<i>Numbered</i>	core
computer count of <bes product>	computer counts	<integer>	<bes product>	<i>Plain</i>	aix
computer id	computer ids	<integer>	<world>	<i>PlainGlobal</i>	aix
computer name	computer names	<string>	<world>	<i>PlainGlobal</i>	aix
concatenation <html> of <html>	concatenations	<html>	<html>	<i>Index<html></i>	core
concatenation <html> of <string>	concatenations	<html>	<string>	<i>Index<html></i>	core
concatenation <string> of <html>	concatenations	<html>	<html>	<i>Named</i>	core
concatenation <string> of <string>	concatenations	<string>	<string>	<i>Named</i>	core
concatenation of <html>	concatenations	<html>	<html>	<i>Plain</i>	core

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

Key Phrase	Plural	Creates a	From a	Form	Ref
current year	current years	<year>	<world>	<i>PlainGlobal</i>	core
custom site subscription effective date <string>	custom site subscription effective dates	<time>	<world>	<i>NamedGlobal</i>	aix
date <string>	dates	<date>	<world>	<i>NamedGlobal</i>	core
date <time zone> of <time>	dates	<date>	<time>	<i>Index<time zone></i>	core
date of <bios>	dates	<string>	<bios>	<i>Plain</i>	aix
day	days	<time interval>	<world>	<i>PlainGlobal</i>	core
day of <day of year>	days	<day of month>	<day of year>	<i>Plain</i>	core
day_of_month <integer>	days_of_month	<day of month>	<world>	<i>NumberedGlobal</i>	core
day_of_month <string>	days_of_month	<day of month>	<world>	<i>NamedGlobal</i>	core
day_of_month of <date>	days_of_month	<day of month>	<date>	<i>Plain</i>	core
day_of_week <string>	days_of_week	<day of week>	<world>	<i>NamedGlobal</i>	core
day_of_week of <date>	days_of_week	<day of week>	<date>	<i>Plain</i>	core
day_of_year of <date>	days_of_year	<day of year>	<date>	<i>Plain</i>	core
dd <string> of <html>	dds	<html>	<html>	<i>Named</i>	core
dd <string> of <string>	dds	<html>	<string>	<i>Named</i>	core
dd of <html>	dds	<html>	<html>	<i>Plain</i>	core
dd of <string>	dds	<html>	<string>	<i>Plain</i>	core
december	decembers	<month>	<world>	<i>PlainGlobal</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
december <integer>	decembers	<day of year>	<world>	<i>NumberedGlobal</i>	core
december <integer> of <integer>	decembers	<date>	<integer>	<i>Numbered</i>	core
december of <integer>	decembers	<month and year>	<integer>	<i>Plain</i>	core
default web browser	default web browsers	<file>	<world>	<i>PlainGlobal</i>	aix
definition list <string> of <html>	definition lists	<html>	<html>	<i>Named</i>	core
definition list <string> of <string>	definition lists	<html>	<string>	<i>Named</i>	core
definition list of <html>	definition lists	<html>	<html>	<i>Plain</i>	core
definition list of <string>	definition lists	<html>	<string>	<i>Plain</i>	core
del <string> of <html>	dels	<html>	<html>	<i>Named</i>	core
del <string> of <string>	dels	<html>	<string>	<i>Named</i>	core
del of <html>	dels	<html>	<html>	<i>Plain</i>	core
del of <string>	dels	<html>	<string>	<i>Plain</i>	core
dependency known of <property>	dependencies known	<boolean>	<property>	<i>Plain</i>	core
descendant folder of <folder>	descendant folders	<folder>	<folder>	<i>Plain</i>	aix
descendant of <folder>	descendants	<file>	<folder>	<i>Plain</i>	aix
description of <fileset>	descriptions	<string>	<fileset>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
desired encrypt report of <client_cryptography>	desired encrypt reports	<boolean>	<client_cryptography>	<i>Plain</i>	aix
desired fips mode of <cryptography>	desired fips modes	<boolean>	<cryptography>	<i>Plain</i>	core
device file <filesystem object>	device files	<device file>	<world>	<i>Index<filesystem object>Global</i>	aix
device file <string>	device files	<device file>	<world>	<i>NamedGlobal</i>	aix
device file <string> of <folder>	device files	<device file>	<folder>	<i>Named</i>	aix
device file <symlink>	device files	<device file>	<world>	<i>Index<symlink>Global</i>	aix
device file of <folder>	device files	<device file>	<folder>	<i>Plain</i>	aix
device type of <device file>	device types	<string>	<device file>	<i>Plain</i>	aix
dfn <string> of <html>	dfns	<html>	<html>	<i>Named</i>	core
dfn <string> of <string>	dfns	<html>	<string>	<i>Named</i>	core
dfn of <html>	dfns	<html>	<html>	<i>Plain</i>	core
dfn of <string>	dfns	<html>	<string>	<i>Plain</i>	core
direct object type of <property>	direct object types	<type>	<property>	<i>Plain</i>	core
disjunction of <boolean>	disjunctions	<boolean>	<boolean>	<i>Plain</i>	core
distance of <selected server>	distances	<integer range>	<selected server>	<i>Plain</i>	aix
div <string> of <html>	divs	<html>	<html>	<i>Named</i>	core
div <string> of <string>	divs	<html>	<string>	<i>Named</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
div of <html>	divs	<html>	<html>	<i>Plain</i>	core
div of <string>	divs	<html>	<string>	<i>Plain</i>	core
dns name	dns names	<string>	<world>	<i>PlainGlobal</i>	aix
domain name	domain names	<string>	<world>	<i>PlainGlobal</i>	aix
domainname	domainnames	<string>	<world>	<i>PlainGlobal</i>	aix
download file <string>	download files	<file>	<world>	<i>NamedGlobal</i>	aix
download path <string>	download paths	<string>	<world>	<i>NamedGlobal</i>	aix
download storage folder	download storage folders	<download storage folder>	<world>	<i>PlainGlobal</i>	aix
drive	drives	<filesystem>	<world>	<i>PlainGlobal</i>	aix
drive <string>	drives	<filesystem>	<world>	<i>NamedGlobal</i>	aix
drive of <device file>	drives	<filesystem>	<device file>	<i>Plain</i>	aix
drive of <fifo file>	drives	<filesystem>	<fifo file>	<i>Plain</i>	aix
drive of <file>	drives	<filesystem>	<file>	<i>Plain</i>	aix
drive of <folder>	drives	<filesystem>	<folder>	<i>Plain</i>	aix
drive of <socket file>	drives	<filesystem>	<socket file>	<i>Plain</i>	aix
drive of <symlink>	drives	<filesystem>	<symlink>	<i>Plain</i>	aix
dt <string> of <html>	dts	<html>	<html>	<i>Named</i>	core
dt <string> of <string>	dts	<html>	<string>	<i>Named</i>	core
dt of <html>	dts	<html>	<html>	<i>Plain</i>	core
dt of <string>	dts	<html>	<string>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
effective date of <action lock state>	effective dates	<time>	<action lock state>	<i>Plain</i>	aix
effective date of <setting>	effective dates	<time>	<setting>	<i>Plain</i>	aix
effective time of <runlevel>	effective times	<time>	<runlevel>	<i>Plain</i>	aix
element of <integer set>	elements	<integer>	<integer set>	<i>Plain</i>	core
element of <string set>	elements	<string>	<string set>	<i>Plain</i>	core
em <string> of <html>	ems	<html>	<html>	<i>Named</i>	core
em <string> of <string>	ems	<html>	<string>	<i>Named</i>	core
em of <html>	ems	<html>	<html>	<i>Plain</i>	core
em of <string>	ems	<html>	<string>	<i>Plain</i>	core
email address of <license>	email addresses	<string>	<license>	<i>Plain</i>	aix
enabled of <setting>	enables	<boolean>	<setting>	<i>Plain</i>	aix
encrypt report failure message of <client_cryptograp hy>	encrypt report failure messages	<string>	<client_cryptograp hy>	<i>Plain</i>	aix
encrypt report of <client_cryptograp hy>	encrypt reports	<boolean>	<client_cryptograp hy>	<i>Plain</i>	aix
encryption certificate of <license>	encryption certificates	<x509 certificate>	<license>	<i>Plain</i>	aix
end of <substring>	ends	<string position>	<substring>	<i>Plain</i>	core
end of <time range>	ends	<time>	<time range>	<i>Plain</i>	core
environment	environments	<environment>	<world>	<i>PlainGlobal</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
error <string>	errors	<undefined>	<world>	<i>NamedGlobal</i>	core
evaluation of <license>	evaluations	<boolean>	<license>	<i>Plain</i>	aix
evaluationcycle of <client>	evaluationcycles	<evaluation cycle>	<client>	<i>Plain</i>	aix
execute of <mode_mask>	executes	<boolean>	<mode_mask>	<i>Plain</i>	aix
exit code of <action>	exit codes	<integer>	<action>	<i>Plain</i>	aix
expiration date of <action lock state>	expiration dates	<time>	<action lock state>	<i>Plain</i>	aix
expiration date of <bes product>	expiration dates	<date>	<bes product>	<i>Plain</i>	aix
expiration date of <license>	expiration dates	<time>	<license>	<i>Plain</i>	aix
expiration state of <license>	expiration states	<string>	<license>	<i>Plain</i>	aix
extrema of <date>	extremas	<(date, date)>	<date>	<i>Plain</i>	core
extrema of <day of month>	extremas	<(day of month, day of month)>	<day of month>	<i>Plain</i>	core
extrema of <day of year>	extremas	<(day of year, day of year)>	<day of year>	<i>Plain</i>	core
extrema of <hertz>	extremas	<(hertz, hertz)>	<hertz>	<i>Plain</i>	core
extrema of <integer>	extremas	<(integer, integer)>	<integer>	<i>Plain</i>	core
extrema of <ipv4 address>	extremas	<(ipv4 address, ipv4 address)>	<ipv4 address>	<i>Plain</i>	core
extrema of <ipv4or6 address>	extremas	<(ipv4or6 address, ipv4or6 address)>	<ipv4or6 address>	<i>Plain</i>	core
extrema of <ipv6 address>	extremas	<(ipv6 address, ipv6 address)>	<ipv6 address>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
extrema of <month and year>	extremas	<(month and year, month and year)>	<month and year>	<i>Plain</i>	core
extrema of <month>	extremas	<(month, month)>	<month>	<i>Plain</i>	core
extrema of <number of months>	extremas	<(number of months, number of months)>	<number of months>	<i>Plain</i>	core
extrema of <site version list>	extremas	<(site version list, site version list)>	<site version list>	<i>Plain</i>	core
extrema of <time interval>	extremas	<(time interval, time interval)>	<time interval>	<i>Plain</i>	core
extrema of <time of day>	extremas	<(time of day, time of day)>	<time of day>	<i>Plain</i>	core
extrema of <time>	extremas	<(time, time)>	<time>	<i>Plain</i>	core
extrema of <version>	extremas	<(version, version)>	<version>	<i>Plain</i>	core
extrema of <year>	extremas	<(year, year)>	<year>	<i>Plain</i>	core
false	falses	<boolean>	<world>	<i>PlainGlobal</i>	core
family name of <processor>	family names	<string>	<processor>	<i>Plain</i>	aix
family of <network interface>	families	<integer>	<network interface>	<i>Plain</i>	aix
family of <processor>	families	<string>	<processor>	<i>Plain</i>	aix
february	februarys	<month>	<world>	<i>PlainGlobal</i>	core
february <integer>	februarys	<day of year>	<world>	<i>NumberedGlobal</i>	core
february <integer> of <integer>	februarys	<date>	<integer>	<i>Numbered</i>	core
february of <integer>	februarys	<month and year>	<integer>	<i>Plain</i>	core
fifo file <filesystem object>	fifo files	<fifo file>	<world>	<i>Index<filesystem object>Global</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
fifo file <string>	fifo files	<fifo file>	<world>	<i>NamedGlobal</i>	aix
fifo file <string> of <folder>	fifo files	<fifo file>	<folder>	<i>Named</i>	aix
fifo file <symlink>	fifo files	<fifo file>	<world>	<i>Index<symlink>Global</i>	aix
fifo file of <folder>	fifo files	<fifo file>	<folder>	<i>Plain</i>	aix
file <string>	files	<file>	<world>	<i>NamedGlobal</i>	aix
file <string> of <folder>	files	<file>	<folder>	<i>Named</i>	aix
file <symlink>	files	<file>	<world>	<i>Index<symlink>Global</i>	aix
file count of <filesystem>	file counts	<integer>	<filesystem>	<i>Plain</i>	aix
file of <folder>	files	<file>	<folder>	<i>Plain</i>	aix
fileset matching <string> of <object_repository>	filesets matching	<fileset>	<object_repository>	<i>Named</i>	aix
fileset of <product>	filesets	<fileset>	<product>	<i>Plain</i>	aix
filesystem	filesystems	<filesystem>	<world>	<i>PlainGlobal</i>	aix
filesystem <string>	filesystems	<filesystem>	<world>	<i>NamedGlobal</i>	aix
filesystem of <device file>	filesystems	<filesystem>	<device file>	<i>Plain</i>	aix
filesystem of <fifo file>	filesystems	<filesystem>	<fifo file>	<i>Plain</i>	aix
filesystem of <file>	filesystems	<filesystem>	<file>	<i>Plain</i>	aix
filesystem of <folder>	filesystems	<filesystem>	<folder>	<i>Plain</i>	aix
filesystem of <socket file>	filesystems	<filesystem>	<socket file>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
filesystem of <symlink>	filesystems	<filesystem>	<symlink>	<i>Plain</i>	aix
final part <time interval> of <time range>	final parts	<time range>	<time range>	<i>Index<time interval></i>	core
find adapter <string> of <network>	find adapters	<network adapter>	<network>	<i>Named</i>	aix
find file <string> of <folder>	find files	<file>	<folder>	<i>Named</i>	aix
find folder <string> of <folder>	find folders	<folder>	<folder>	<i>Named</i>	aix
fips mode failure message of <cryptography>	fips mode failure messages	<string>	<cryptography>	<i>Plain</i>	core
fips mode of <cryptography>	fips modes	<boolean>	<cryptography>	<i>Plain</i>	core
fips mode of <license>	fips modes	<boolean>	<license>	<i>Plain</i>	aix
first <day of week> of <month and year>	firsts	<date>	<month and year>	<i>Index<day of week></i>	core
first <integer> of <string>	firsts	<substring>	<string>	<i>Numbered</i>	core
first <string> of <string>	firsts	<substring>	<string>	<i>Named</i>	core
first friday of <month and year>	first fridays	<date>	<month and year>	<i>Plain</i>	core
first match <regular expression> of <string>	first matches	<regular expression match>	<string>	<i>Index<regular expression></i>	regex
first monday of <month and year>	first mondays	<date>	<month and year>	<i>Plain</i>	core
first saturday of <month and year>	first saturdays	<date>	<month and year>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
first start time of <application usage summary instance>	first start times	<time>	<application usage summary instance>	<i>Plain</i>	aix
first start time of <application usage summary>	first start times	<time>	<application usage summary>	<i>Plain</i>	aix
first sunday of <month and year>	first sundays	<date>	<month and year>	<i>Plain</i>	core
first thursday of <month and year>	first thursdays	<date>	<month and year>	<i>Plain</i>	core
first tuesday of <month and year>	first tuesdays	<date>	<month and year>	<i>Plain</i>	core
first wednesday of <month and year>	first wednesdays	<date>	<month and year>	<i>Plain</i>	core
fixlet of <site>	fixlets	<fixlet>	<site>	<i>Plain</i>	aix
folder <string>	folders	<folder>	<world>	<i>NamedGlobal</i>	aix
folder <string> of <folder>	folders	<folder>	<folder>	<i>Named</i>	aix
folder <symlink>	folders	<folder>	<world>	<i>Index<symlink>Global</i>	aix
folder of <folder>	folders	<folder>	<folder>	<i>Plain</i>	aix
following text of <string position>	following texts	<substring>	<string position>	<i>Plain</i>	core
following text of <substring>	following texts	<substring>	<substring>	<i>Plain</i>	core
free amount of <ram>	free amounts	<integer>	<ram>	<i>Plain</i>	aix
free amount of <swap>	free amounts	<integer>	<swap>	<i>Plain</i>	aix
free file count of <filesystem>	free file counts	<integer>	<filesystem>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
free partition count of <volume group>	free partition counts	<integer>	<volume group>	<i>Plain</i>	aix
free percent of <filesystem>	free percents	<integer>	<filesystem>	<i>Plain</i>	aix
free space of <filesystem>	free spaces	<integer>	<filesystem>	<i>Plain</i>	aix
friday	fridays	<day of week>	<world>	<i>PlainGlobal</i>	core
friendly name of <network adapter>	friendly names	<string>	<network adapter>	<i>Plain</i>	aix
full gateway address of <selected server>	full gateway addresses	<ipv4or6 address>	<selected server>	<i>Plain</i>	aix
full of <power level>	fulls	<boolean>	<power level>	<i>Plain</i>	aix
gateway address <integer> of <selected server>	gateway addresses	<ipv4or6 address>	<selected server>	<i>Numbered</i>	aix
gateway address of <selected server>	gateway addresses	<ipv4or6 address>	<selected server>	<i>Plain</i>	aix
gather schedule authority of <site>	gather schedule authorities	<string>	<site>	<i>Plain</i>	aix
gather schedule time interval of <site>	gather schedule time intervals	<time interval>	<site>	<i>Plain</i>	aix
gather url of <license>	gather urls	<string>	<license>	<i>Plain</i>	aix
ghz	ghzs	<hertz>	<world>	<i>PlainGlobal</i>	core
gid of <filesystem object>	gids	<integer>	<filesystem object>	<i>Plain</i>	aix
gid of <symlink>	gids	<integer>	<symlink>	<i>Plain</i>	aix
greatest hz	greatest hzs	<hertz>	<world>	<i>PlainGlobal</i>	core
greatest integer	greatest integers	<integer>	<world>	<i>PlainGlobal</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
greatest time interval	greatest time intervals	<time interval>	<world>	<i>PlainGlobal</i>	core
group <integer> of <site>	groups	<site group>	<site>	<i>Numbered</i>	aix
group execute of <filesystem object>	group executes	<boolean>	<filesystem object>	<i>Plain</i>	aix
group leader of <action>	group leaders	<boolean>	<action>	<i>Plain</i>	aix
group mask of <filesystem object>	group masks	<integer>	<filesystem object>	<i>Plain</i>	aix
group mask of <mode>	group masks	<mode_mask>	<mode>	<i>Plain</i>	aix
group name of <filesystem object>	group names	<string>	<filesystem object>	<i>Plain</i>	aix
group name of <symlink>	group names	<string>	<symlink>	<i>Plain</i>	aix
group read of <filesystem object>	group reads	<boolean>	<filesystem object>	<i>Plain</i>	aix
group write of <filesystem object>	group writes	<boolean>	<filesystem object>	<i>Plain</i>	aix
h1 <string> of <html>	h1s	<html>	<html>	<i>Named</i>	core
h1 <string> of <string>	h1s	<html>	<string>	<i>Named</i>	core
h1 of <html>	h1s	<html>	<html>	<i>Plain</i>	core
h1 of <string>	h1s	<html>	<string>	<i>Plain</i>	core
h2 <string> of <html>	h2s	<html>	<html>	<i>Named</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
h2 <string> of <string>	h2s	<html>	<string>	<i>Named</i>	core
h2 of <html>	h2s	<html>	<html>	<i>Plain</i>	core
h2 of <string>	h2s	<html>	<string>	<i>Plain</i>	core
h3 <string> of <html>	h3s	<html>	<html>	<i>Named</i>	core
h3 <string> of <string>	h3s	<html>	<string>	<i>Named</i>	core
h3 of <html>	h3s	<html>	<html>	<i>Plain</i>	core
h3 of <string>	h3s	<html>	<string>	<i>Plain</i>	core
h4 <string> of <html>	h4s	<html>	<html>	<i>Named</i>	core
h4 <string> of <string>	h4s	<html>	<string>	<i>Named</i>	core
h4 of <html>	h4s	<html>	<html>	<i>Plain</i>	core
h4 of <string>	h4s	<html>	<string>	<i>Plain</i>	core
h5 <string> of <html>	h5s	<html>	<html>	<i>Named</i>	core
h5 <string> of <string>	h5s	<html>	<string>	<i>Named</i>	core
h5 of <html>	h5s	<html>	<html>	<i>Plain</i>	core
h5 of <string>	h5s	<html>	<string>	<i>Plain</i>	core
h6 <string> of <html>	h6s	<html>	<html>	<i>Named</i>	core
h6 <string> of <string>	h6s	<html>	<string>	<i>Named</i>	core
h6 of <html>	h6s	<html>	<html>	<i>Plain</i>	core
h6 of <string>	h6s	<html>	<string>	<i>Plain</i>	core
head <string> of <html>	heads	<html>	<html>	<i>Named</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
head <string> of <string>	heads	<html>	<string>	<i>Named</i>	core
head of <html>	heads	<html>	<html>	<i>Plain</i>	core
head of <string>	heads	<html>	<string>	<i>Plain</i>	core
header <string> of <fixlet>	headers	<fixlet_header>	<fixlet>	<i>Named</i>	aix
header of <fixlet>	headers	<fixlet_header>	<fixlet>	<i>Plain</i>	aix
hexadecet <integer> of <ipv4or6 address>	hexadecets	<integer>	<ipv4or6 address>	<i>Numbered</i>	core
hexadecet <integer> of <ipv6 address>	hexadecets	<integer>	<ipv6 address>	<i>Numbered</i>	core
hexadecimal integer <string>	hexadecimal integers	<integer>	<world>	<i>NamedGlobal</i>	core
hexadecimal string <string>	hexadecimal strings	<string>	<world>	<i>NamedGlobal</i>	core
host name	host names	<string>	<world>	<i>PlainGlobal</i>	aix
host name of <root server>	host names	<string>	<root server>	<i>Plain</i>	aix
hostname	hostnames	<string>	<world>	<i>PlainGlobal</i>	aix
hour	hours	<time interval>	<world>	<i>PlainGlobal</i>	core
hour_of_day of <time of day with time zone>	hours_of_day	<integer>	<time of day with time zone>	<i>Plain</i>	core
hour_of_day of <time of day>	hours_of_day	<integer>	<time of day>	<i>Plain</i>	core
hr	hrs	<html>	<world>	<i>PlainGlobal</i>	core
hr <string>	hrs	<html>	<world>	<i>NamedGlobal</i>	core
html <string>	htmls	<html>	<world>	<i>NamedGlobal</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
html <string> of <html>	htmls	<html>	<html>	<i>Named</i>	core
html <string> of <string>	htmls	<html>	<string>	<i>Named</i>	core
html concatenation <string> of <html>	html concatenations	<html>	<html>	<i>Named</i>	core
html concatenation of <html>	html concatenations	<html>	<html>	<i>Plain</i>	core
html of <html>	htmls	<html>	<html>	<i>Plain</i>	core
html of <string>	htmls	<html>	<string>	<i>Plain</i>	core
html tag <(string, html)>	html tags	<html>	<world>	<i>Index<(string, html)>Global</i>	core
html tag <(string, html attribute list)>	html tags	<html>	<world>	<i>Index<(string, html attribute list)>Global</i>	core
html tag <(string, html attribute list, html)>	html tags	<html>	<world>	<i>Index<(string, html attribute list, html)>Global</i>	core
html tag <(string, html attribute list, string)>	html tags	<html>	<world>	<i>Index<(string, html attribute list, string)>Global</i>	core
html tag <(string, string)>	html tags	<html>	<world>	<i>Index<(string, string)>Global</i>	core
html tag <string> of <html>	html tags	<html>	<html>	<i>Named</i>	core
html tag <string> of <string>	html tags	<html>	<string>	<i>Named</i>	core
hz	hzs	<hertz>	<world>	<i>PlainGlobal</i>	core
id of <action>	ids	<integer>	<action>	<i>Plain</i>	aix
id of <fixlet>	ids	<integer>	<fixlet>	<i>Plain</i>	aix
id of <process>	ids	<integer>	<process>	<i>Plain</i>	aix
id of <processor>	ids	<integer>	<processor>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
id of <root server>	ids	<integer>	<root server>	<i>Plain</i>	aix
id of <site group>	ids	<integer>	<site group>	<i>Plain</i>	aix
index of <processor>	indexes	<integer>	<processor>	<i>Plain</i>	aix
index type of <property>	index types	<type>	<property>	<i>Plain</i>	core
initial part <time interval> of <time range>	initial parts	<time range>	<time range>	<i>Index<time interval></i>	core
ins <string> of <html>	inss	<html>	<html>	<i>Named</i>	core
ins <string> of <string>	inss	<html>	<string>	<i>Named</i>	core
ins of <html>	inss	<html>	<html>	<i>Plain</i>	core
ins of <string>	inss	<html>	<string>	<i>Plain</i>	core
instance of <application usage summary>	instances	<application usage summary instance>	<application usage summary>	<i>Plain</i>	aix
integer <integer>	integers	<integer>	<world>	<i>NumberedGlobal</i>	core
integer <string>	integers	<integer>	<world>	<i>NamedGlobal</i>	core
integer in <(integer, integer)>	integers in	<integer>	<world>	<i>Index<(integer, integer)>Global</i>	core
integer in <(integer, integer, integer)>	integers in	<integer>	<world>	<i>Index<(integer, integer, integer)>Global</i>	core
integer to <integer>	integers to	<integer>	<world>	<i>NumberedGlobal</i>	core
interface <integer> of <network>	interfaces	<network interface>	<network>	<i>Numbered</i>	aix
interface of <network>	interfaces	<network interface>	<network>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
intersection of <integer set>	intersections	<integer set>	<integer set>	<i>Plain</i>	core
intersection of <string set>	intersections	<string set>	<string set>	<i>Plain</i>	core
invalid before of <x509 certificate>	invalid befores	<time>	<x509 certificate>	<i>Plain</i>	core
ip address of <selected server>	ip addresses	<ipv4or6 address>	<selected server>	<i>Plain</i>	aix
ip interface <integer> of <network>	ip interfaces	<network ip interface>	<network>	<i>Numbered</i>	aix
ip interface of <network>	ip interfaces	<network ip interface>	<network>	<i>Plain</i>	aix
ip version <integer>	ip versions	<ip version>	<world>	<i>NumberedGlobal</i>	core
ip version of <ipv4or6 address>	ip versions	<ip version>	<ipv4or6 address>	<i>Plain</i>	core
ipv4	ipv4s	<ip version>	<world>	<i>PlainGlobal</i>	core
ipv4 address <string>	ipv4 addresses	<ipv4 address>	<world>	<i>NamedGlobal</i>	core
ipv4 interface of <network adapter>	ipv4 interfaces	<network adapter interface>	<network adapter>	<i>Plain</i>	aix
ipv4 interface of <network>	ipv4 interfaces	<network adapter interface>	<network>	<i>Plain</i>	aix
ipv4 part of <ipv4or6 address>	ipv4 parts	<ipv4 address>	<ipv4or6 address>	<i>Plain</i>	core
ipv4 part of <ipv6 address>	ipv4 parts	<ipv4 address>	<ipv6 address>	<i>Plain</i>	core
ipv4or6 address <string>	ipv4or6 addresses	<ipv4or6 address>	<world>	<i>NamedGlobal</i>	core
ipv4or6 interface of <network adapter>	ipv4or6 interfaces	<network adapter interface>	<network adapter>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
ipv4or6 interface of <network>	ipv4or6 interfaces	<network adapter interface>	<network>	<i>Plain</i>	aix
ipv6	ipv6s	<ip version>	<world>	<i>PlainGlobal</i>	core
ipv6 address <string>	ipv6 addresses	<ipv6 address>	<world>	<i>NamedGlobal</i>	core
ipv6 interface of <network adapter>	ipv6 interfaces	<network adapter interface>	<network adapter>	<i>Plain</i>	aix
ipv6 interface of <network>	ipv6 interfaces	<network adapter interface>	<network>	<i>Plain</i>	aix
italic <string> of <html>	italics	<html>	<html>	<i>Named</i>	core
italic <string> of <string>	italics	<html>	<string>	<i>Named</i>	core
italic of <html>	italics	<html>	<html>	<i>Plain</i>	core
italic of <string>	italics	<html>	<string>	<i>Plain</i>	core
january	januaries	<month>	<world>	<i>PlainGlobal</i>	core
january <integer>	januaries	<day of year>	<world>	<i>NumberedGlobal</i>	core
january <integer> of <integer>	januaries	<date>	<integer>	<i>Numbered</i>	core
january of <integer>	januaries	<month and year>	<integer>	<i>Plain</i>	core
july	julys	<month>	<world>	<i>PlainGlobal</i>	core
july <integer>	julys	<day of year>	<world>	<i>NumberedGlobal</i>	core
july <integer> of <integer>	julys	<date>	<integer>	<i>Numbered</i>	core
july of <integer>	julys	<month and year>	<integer>	<i>Plain</i>	core
june	junes	<month>	<world>	<i>PlainGlobal</i>	core
june <integer>	junes	<day of year>	<world>	<i>NumberedGlobal</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
june <integer> of <integer>	junes	<date>	<integer>	<i>Numbered</i>	core
june of <integer>	junes	<month and year>	<integer>	<i>Plain</i>	core
kbd <string> of <html>	kbds	<html>	<html>	<i>Named</i>	core
kbd <string> of <string>	kbds	<html>	<string>	<i>Named</i>	core
kbd of <html>	kbds	<html>	<html>	<i>Plain</i>	core
kbd of <string>	kbds	<html>	<string>	<i>Plain</i>	core
key <string> of <file section>	keys	<string>	<file section>	<i>Named</i>	aix
key <string> of <file>	keys	<string>	<file>	<i>Named</i>	aix
khz	khzs	<hertz>	<world>	<i>PlainGlobal</i>	core
label of <logical volume>	labels	<string>	<logical volume>	<i>Plain</i>	aix
last <integer> of <string>	lasts	<substring>	<string>	<i>Numbered</i>	core
last <string> of <string>	lasts	<substring>	<string>	<i>Named</i>	core
last change time of <action>	last change times	<time>	<action>	<i>Plain</i>	aix
last gather time of <site>	last gather times	<time>	<site>	<i>Plain</i>	aix
last relay select time	last relay select times	<time>	<world>	<i>PlainGlobal</i>	aix
last start time of <application usage summary instance>	last start times	<time>	<application usage summary instance>	<i>Plain</i>	aix
last start time of <application usage summary>	last start times	<time>	<application usage summary>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
last time seen of <application usage summary instance>	last times seen	<time>	<application usage summary instance>	<i>Plain</i>	aix
last time seen of <application usage summary>	last times seen	<time>	<application usage summary>	<i>Plain</i>	aix
leap of <year>	leaps	<boolean>	<year>	<i>Plain</i>	core
least hz	least hzs	<hertz>	<world>	<i>PlainGlobal</i>	core
least integer	least integers	<integer>	<world>	<i>PlainGlobal</i>	core
least significant one bit of <bit set>	least significant one bits	<integer>	<bit set>	<i>Plain</i>	core
least time interval	least time intervals	<time interval>	<world>	<i>PlainGlobal</i>	core
left operand type of <binary operator>	left operand types	<type>	<binary operator>	<i>Plain</i>	core
left shift <integer> of <bit set>	left shifts	<bit set>	<bit set>	<i>Numbered</i>	core
length of <month and year>	lengths	<time interval>	<month and year>	<i>Plain</i>	core
length of <rope>	lengths	<integer>	<rope>	<i>Plain</i>	core
length of <string>	lengths	<integer>	<string>	<i>Plain</i>	core
length of <time range>	lengths	<time interval>	<time range>	<i>Plain</i>	core
length of <year>	lengths	<time interval>	<year>	<i>Plain</i>	core
li <string> of <html>	lis	<html>	<html>	<i>Named</i>	core
li <string> of <string>	lis	<html>	<string>	<i>Named</i>	core
li of <html>	lis	<html>	<html>	<i>Plain</i>	core

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

Key Phrase	Plural	Creates a	From a	Form	Ref
logical volume <string> of <volume group>	logical volumes	<logical volume>	<volume group>	<i>Named</i>	aix
logical volume manager	logical volume managers	<logical volume manager>	<world>	<i>PlainGlobal</i>	aix
logical volume of <filesystem>	logical volumes	<logical volume>	<filesystem>	<i>Plain</i>	aix
logical volume of <volume group>	logical volumes	<logical volume>	<volume group>	<i>Plain</i>	aix
loopback of <network adapter interface>	loopbacks	<boolean>	<network adapter interface>	<i>Plain</i>	aix
loopback of <network adapter>	loopbacks	<boolean>	<network adapter>	<i>Plain</i>	aix
loopback of <network ip interface>	loopbacks	<boolean>	<network ip interface>	<i>Plain</i>	aix
low of <power level>	lows	<boolean>	<power level>	<i>Plain</i>	aix
lpp_name of <fileset>	lpp_names	<string>	<fileset>	<i>Plain</i>	aix
mac address of <network adapter interface>	mac addresses	<string>	<network adapter interface>	<i>Plain</i>	aix
mac address of <network adapter>	mac addresses	<string>	<network adapter>	<i>Plain</i>	aix
mac address of <network ip interface>	mac addresses	<string>	<network ip interface>	<i>Plain</i>	aix
mac of <operating system>	macs	<boolean>	<operating system>	<i>Plain</i>	aix
main gather service	main gather services	<service>	<world>	<i>PlainGlobal</i>	aix
main processor	main processors	<processor>	<world>	<i>PlainGlobal</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
major number of <volume group>	major numbers	<integer>	<volume group>	<i>Plain</i>	aix
major of <device file>	majors	<integer>	<device file>	<i>Plain</i>	aix
march	marchs	<month>	<world>	<i>PlainGlobal</i>	core
march <integer>	marchs	<day of year>	<world>	<i>NumberedGlobal</i>	core
march <integer> of <integer>	marchs	<date>	<integer>	<i>Numbered</i>	core
march of <integer>	marchs	<month and year>	<integer>	<i>Plain</i>	core
masthead of <site>	mastheads	<file>	<site>	<i>Plain</i>	aix
match <regular expression> of <string>	matches	<regular expression match>	<string>	<i>Index<regular expression></i>	regx
maximum of <date>	maxima	<date>	<date>	<i>Plain</i>	core
maximum of <day of month>	maxima	<day of month>	<day of month>	<i>Plain</i>	core
maximum of <day of year>	maxima	<day of year>	<day of year>	<i>Plain</i>	core
maximum of <evaluation cycle>	maximums	<integer>	<evaluation cycle>	<i>Plain</i>	aix
maximum of <hertz>	maxima	<hertz>	<hertz>	<i>Plain</i>	core
maximum of <integer>	maxima	<integer>	<integer>	<i>Plain</i>	core
maximum of <ipv4 address>	maxima	<ipv4 address>	<ipv4 address>	<i>Plain</i>	core
maximum of <ipv4or6 address>	maxima	<ipv4or6 address>	<ipv4or6 address>	<i>Plain</i>	core
maximum of <ipv6 address>	maxima	<ipv6 address>	<ipv6 address>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
maximum of <month and year>	maxima	<month and year>	<month and year>	<i>Plain</i>	core
maximum of <month>	maxima	<month>	<month>	<i>Plain</i>	core
maximum of <number of months>	maxima	<number of months>	<number of months>	<i>Plain</i>	core
maximum of <site version list>	maxima	<site version list>	<site version list>	<i>Plain</i>	core
maximum of <time interval>	maxima	<time interval>	<time interval>	<i>Plain</i>	core
maximum of <time of day>	maxima	<time of day>	<time of day>	<i>Plain</i>	core
maximum of <time>	maxima	<time>	<time>	<i>Plain</i>	core
maximum of <version>	maxima	<version>	<version>	<i>Plain</i>	core
maximum of <year>	maxima	<year>	<year>	<i>Plain</i>	core
maximum partition count of <logical volume>	maximum partition counts	<integer>	<logical volume>	<i>Plain</i>	aix
maximum seat count of <license>	maximum seat counts	<integer>	<license>	<i>Plain</i>	aix
may	mays	<month>	<world>	<i>PlainGlobal</i>	core
may <integer>	mays	<day of year>	<world>	<i>NumberedGlobal</i>	core
may <integer> of <integer>	mays	<date>	<integer>	<i>Numbered</i>	core
may of <integer>	mays	<month and year>	<integer>	<i>Plain</i>	core
member of <site group>	members	<boolean>	<site group>	<i>Plain</i>	aix
meta <string> of <html>	metas	<html>	<html>	<i>Named</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
meta <string> of <string>	metas	<html>	<string>	<i>Named</i>	core
meta of <html>	metas	<html>	<html>	<i>Plain</i>	core
meta of <string>	metas	<html>	<string>	<i>Plain</i>	core
mhz	mhzs	<hertz>	<world>	<i>PlainGlobal</i>	core
microsecond	microseconds	<time interval>	<world>	<i>PlainGlobal</i>	core
midnight	midnights	<time of day>	<world>	<i>PlainGlobal</i>	core
millisecond	milliseconds	<time interval>	<world>	<i>PlainGlobal</i>	core
minimum of <date>	minima	<date>	<date>	<i>Plain</i>	core
minimum of <day of month>	minima	<day of month>	<day of month>	<i>Plain</i>	core
minimum of <day of year>	minima	<day of year>	<day of year>	<i>Plain</i>	core
minimum of <hertz>	minima	<hertz>	<hertz>	<i>Plain</i>	core
minimum of <integer>	minima	<integer>	<integer>	<i>Plain</i>	core
minimum of <ipv4 address>	minima	<ipv4 address>	<ipv4 address>	<i>Plain</i>	core
minimum of <ipv4or6 address>	minima	<ipv4or6 address>	<ipv4or6 address>	<i>Plain</i>	core
minimum of <ipv6 address>	minima	<ipv6 address>	<ipv6 address>	<i>Plain</i>	core
minimum of <month and year>	minima	<month and year>	<month and year>	<i>Plain</i>	core
minimum of <month>	minima	<month>	<month>	<i>Plain</i>	core
minimum of <number of months>	minima	<number of months>	<number of months>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
minimum of <site version list>	minima	<site version list>	<site version list>	<i>Plain</i>	core
minimum of <time interval>	minima	<time interval>	<time interval>	<i>Plain</i>	core
minimum of <time of day>	minima	<time of day>	<time of day>	<i>Plain</i>	core
minimum of <time>	minima	<time>	<time>	<i>Plain</i>	core
minimum of <version>	minima	<version>	<version>	<i>Plain</i>	core
minimum of <year>	minima	<year>	<year>	<i>Plain</i>	core
minor number of <logical volume>	minor numbers	<integer>	<logical volume>	<i>Plain</i>	aix
minor of <device file>	minors	<integer>	<device file>	<i>Plain</i>	aix
minute	minutes	<time interval>	<world>	<i>PlainGlobal</i>	core
minute_of_hour of <time of day with time zone>	minutes_of_hour	<integer>	<time of day with time zone>	<i>Plain</i>	core
minute_of_hour of <time of day>	minutes_of_hour	<integer>	<time of day>	<i>Plain</i>	core
mirror count of <logical volume>	mirror counts	<integer>	<logical volume>	<i>Plain</i>	aix
mode of <filesystem object>	modes	<mode>	<filesystem object>	<i>Plain</i>	aix
model of <processor>	models	<string>	<processor>	<i>Plain</i>	aix
modification time of <filesystem object>	modification times	<time>	<filesystem object>	<i>Plain</i>	aix
modification time of <symlink>	modification times	<time>	<symlink>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
module <string>	modules	<module>	<world>	<i>NamedGlobal</i>	core
monday	mondays	<day of week>	<world>	<i>PlainGlobal</i>	core
month	months	<number of months>	<world>	<i>PlainGlobal</i>	core
month <integer>	months	<month>	<world>	<i>NumberedGlobal</i>	core
month <string>	months	<month>	<world>	<i>NamedGlobal</i>	core
month of <date>	months	<month>	<date>	<i>Plain</i>	core
month of <day of year>	months	<month>	<day of year>	<i>Plain</i>	core
month of <month and year>	months	<month>	<month and year>	<i>Plain</i>	core
month_and_year of <date>	months_and_years	<month and year>	<date>	<i>Plain</i>	core
most significant one bit of <bit set>	most significant one bits	<integer>	<bit set>	<i>Plain</i>	core
multicast support of <network adapter interface>	multicast supports	<boolean>	<network adapter interface>	<i>Plain</i>	aix
multicast support of <network adapter>	multicast supports	<boolean>	<network adapter>	<i>Plain</i>	aix
multicast support of <network ip interface>	multicast supports	<boolean>	<network ip interface>	<i>Plain</i>	aix
multiplicity of <date with multiplicity>	multiplicities	<integer>	<date with multiplicity>	<i>Plain</i>	core
multiplicity of <day of month with multiplicity>	multiplicities	<integer>	<day of month with multiplicity>	<i>Plain</i>	core
multiplicity of <day of week with multiplicity>	multiplicities	<integer>	<day of week with multiplicity>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
multiplicity of <day of year with multiplicity>	multiplicities	<integer>	<day of year with multiplicity>	<i>Plain</i>	core
multiplicity of <hertz with multiplicity>	multiplicities	<integer>	<hertz with multiplicity>	<i>Plain</i>	core
multiplicity of <integer with multiplicity>	multiplicities	<integer>	<integer with multiplicity>	<i>Plain</i>	core
multiplicity of <ipv4 address with multiplicity>	multiplicities	<integer>	<ipv4 address with multiplicity>	<i>Plain</i>	core
multiplicity of <ipv4or6 address with multiplicity>	multiplicities	<integer>	<ipv4or6 address with multiplicity>	<i>Plain</i>	core
multiplicity of <ipv6 address with multiplicity>	multiplicities	<integer>	<ipv6 address with multiplicity>	<i>Plain</i>	core
multiplicity of <month and year with multiplicity>	multiplicities	<integer>	<month and year with multiplicity>	<i>Plain</i>	core
multiplicity of <month with multiplicity>	multiplicities	<integer>	<month with multiplicity>	<i>Plain</i>	core
multiplicity of <number of months with multiplicity>	multiplicities	<integer>	<number of months with multiplicity>	<i>Plain</i>	core
multiplicity of <site version list with multiplicity>	multiplicities	<integer>	<site version list with multiplicity>	<i>Plain</i>	core
multiplicity of <string with multiplicity>	multiplicities	<integer>	<string with multiplicity>	<i>Plain</i>	core
multiplicity of <time interval with multiplicity>	multiplicities	<integer>	<time interval with multiplicity>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
multiplicity of <time of day with multiplicity>	multiplicities	<integer>	<time of day with multiplicity>	<i>Plain</i>	core
multiplicity of <time of day with time zone with multiplicity>	multiplicities	<integer>	<time of day with time zone with multiplicity>	<i>Plain</i>	core
multiplicity of <time range with multiplicity>	multiplicities	<integer>	<time range with multiplicity>	<i>Plain</i>	core
multiplicity of <time with multiplicity>	multiplicities	<integer>	<time with multiplicity>	<i>Plain</i>	core
multiplicity of <time zone with multiplicity>	multiplicities	<integer>	<time zone with multiplicity>	<i>Plain</i>	core
multiplicity of <version with multiplicity>	multiplicities	<integer>	<version with multiplicity>	<i>Plain</i>	core
multiplicity of <year with multiplicity>	multiplicities	<integer>	<year with multiplicity>	<i>Plain</i>	core
multivalued of <property>	multivalueds	<boolean>	<property>	<i>Plain</i>	core
name of <application usage summary instance>	names	<string>	<application usage summary instance>	<i>Plain</i>	aix
name of <application usage summary>	names	<string>	<application usage summary>	<i>Plain</i>	aix
name of <bes product>	names	<string>	<bes product>	<i>Plain</i>	aix
name of <binary operator>	names	<string>	<binary operator>	<i>Plain</i>	core
name of <cast>	names	<string>	<cast>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
name of <environment variable>	names	<string>	<environment variable>	<i>Plain</i>	aix
name of <filesystem object>	names	<string>	<filesystem object>	<i>Plain</i>	aix
name of <filesystem>	names	<string>	<filesystem>	<i>Plain</i>	aix
name of <fixlet_header>	names	<string>	<fixlet_header>	<i>Plain</i>	aix
name of <logical volume>	names	<string>	<logical volume>	<i>Plain</i>	aix
name of <network adapter>	names	<string>	<network adapter>	<i>Plain</i>	aix
name of <network ip interface>	names	<string>	<network ip interface>	<i>Plain</i>	aix
name of <operating system>	names	<string>	<operating system>	<i>Plain</i>	aix
name of <process>	names	<string>	<process>	<i>Plain</i>	aix
name of <product>	names	<string>	<product>	<i>Plain</i>	aix
name of <selected server>	names	<string>	<selected server>	<i>Plain</i>	aix
name of <setting>	names	<string>	<setting>	<i>Plain</i>	aix
name of <site>	names	<string>	<site>	<i>Plain</i>	aix
name of <symlink>	names	<string>	<symlink>	<i>Plain</i>	aix
name of <type>	names	<string>	<type>	<i>Plain</i>	core
name of <unary operator>	names	<string>	<unary operator>	<i>Plain</i>	core
name of <user>	names	<string>	<user>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
name of <volume group>	names	<string>	<volume group>	<i>Plain</i>	aix
network	networks	<network>	<world>	<i>PlainGlobal</i>	aix
next line of <file line>	next lines	<file line>	<file line>	<i>Plain</i>	aix
non windows server count of <bes product>	non windows server counts	<integer>	<bes product>	<i>Plain</i>	aix
noon	noons	<time of day>	<world>	<i>PlainGlobal</i>	core
normal of <power level>	normals	<boolean>	<power level>	<i>Plain</i>	aix
november	novembers	<month>	<world>	<i>PlainGlobal</i>	core
november <integer>	novembers	<day of year>	<world>	<i>NumberedGlobal</i>	core
november <integer> of <integer>	novembers	<date>	<integer>	<i>Numbered</i>	core
november of <integer>	novembers	<month and year>	<integer>	<i>Plain</i>	core
now	nows	<time>	<world>	<i>PlainGlobal</i>	core
numeric value of <string>	numeric values	<integer>	<string>	<i>Plain</i>	core
object repository	object repositories	<object_repository >	<world>	<i>PlainGlobal</i>	aix
october	octobers	<month>	<world>	<i>PlainGlobal</i>	core
october <integer>	octobers	<day of year>	<world>	<i>NumberedGlobal</i>	core
october <integer> of <integer>	octobers	<date>	<integer>	<i>Numbered</i>	core
october of <integer>	octobers	<month and year>	<integer>	<i>Plain</i>	core
offer accepted of <action>	offer accepteds	<boolean>	<action>	<i>Plain</i>	aix

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

Key Phrase	Plural	Creates a	From a	Form	Ref
other mask of <mode>	other masks	<mode_mask>	<mode>	<i>Plain</i>	aix
other read of <filesystem object>	other reads	<boolean>	<filesystem object>	<i>Plain</i>	aix
other write of <filesystem object>	other writes	<boolean>	<filesystem object>	<i>Plain</i>	aix
p <string> of <html>	ps	<html>	<html>	<i>Named</i>	core
p <string> of <string>	ps	<html>	<string>	<i>Named</i>	core
p of <html>	ps	<html>	<html>	<i>Plain</i>	core
p of <string>	ps	<html>	<string>	<i>Plain</i>	core
parameter <string>	parameters	<string>	<world>	<i>NamedGlobal</i>	aix
parameter <string> of <action>	parameters	<string>	<action>	<i>Named</i>	aix
parent folder of <filesystem object>	parent folders	<folder>	<filesystem object>	<i>Plain</i>	aix
parent folder of <symlink>	parent folders	<folder>	<symlink>	<i>Plain</i>	aix
parent of <type>	parents	<type>	<type>	<i>Plain</i>	core
parenthesized part <integer> of <regular expression match>	parenthesized parts	<substring>	<regular expression match>	<i>Numbered</i>	regx
parenthesized part of <regular expression match>	parenthesized parts	<substring>	<regular expression match>	<i>Plain</i>	regx
partition count of <logical volume>	partition counts	<integer>	<logical volume>	<i>Plain</i>	aix
partition size of <volume group>	partition sizes	<integer>	<volume group>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
pathname of <filesystem object>	pathnames	<string>	<filesystem object>	<i>Plain</i>	aix
pathname of <symlink>	pathnames	<string>	<symlink>	<i>Plain</i>	aix
pending login	pending logins	<boolean>	<world>	<i>PlainGlobal</i>	aix
pending login of <action>	pending logins	<boolean>	<action>	<i>Plain</i>	aix
pending of <action>	pendings	<boolean>	<action>	<i>Plain</i>	aix
pending restart	pending restarts	<boolean>	<world>	<i>PlainGlobal</i>	aix
pending restart <string>	pending restarts	<boolean>	<world>	<i>NamedGlobal</i>	aix
pending restart name	pending restart names	<string>	<world>	<i>PlainGlobal</i>	aix
pending restart of <action>	pending restarts	<boolean>	<action>	<i>Plain</i>	aix
pending time of <action>	pending times	<time>	<action>	<i>Plain</i>	aix
pid of <process>	pids	<integer>	<process>	<i>Plain</i>	aix
platform id of <language>	platform ids	<string>	<language>	<i>Plain</i>	aix
plugged of <power level>	pluggeds	<boolean>	<power level>	<i>Plain</i>	aix
plural name of <property>	plural names	<string>	<property>	<i>Plain</i>	core
point to point of <network adapter interface>	point to points	<boolean>	<network adapter interface>	<i>Plain</i>	aix
point to point of <network ip interface>	point to points	<boolean>	<network ip interface>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
port number of <selected server>	port numbers	<integer>	<selected server>	<i>Plain</i>	aix
position <integer> of <string>	positions	<string position>	<string>	<i>Numbered</i>	core
position of <string>	positions	<string position>	<string>	<i>Plain</i>	core
power level	power levels	<power level>	<world>	<i>PlainGlobal</i>	aix
pre <string> of <html>	pres	<html>	<html>	<i>Named</i>	core
pre <string> of <string>	pres	<html>	<string>	<i>Named</i>	core
pre of <html>	pres	<html>	<html>	<i>Plain</i>	core
pre of <string>	pres	<html>	<string>	<i>Plain</i>	core
preceding text of <string position>	preceding texts	<substring>	<string position>	<i>Plain</i>	core
preceding text of <substring>	preceding texts	<substring>	<substring>	<i>Plain</i>	core
previous line of <file line>	previous lines	<file line>	<file line>	<i>Plain</i>	aix
primary language of <language>	primary languages	<primary language>	<language>	<i>Plain</i>	aix
priority of <selected server>	priorities	<integer>	<selected server>	<i>Plain</i>	aix
process	processes	<process>	<world>	<i>PlainGlobal</i>	aix
process <integer>	processes	<process>	<world>	<i>NumberedGlobal</i>	aix
process <string>	processes	<process>	<world>	<i>NamedGlobal</i>	aix
process id of <process>	process ids	<integer>	<process>	<i>Plain</i>	aix
processor	processors	<processor>	<world>	<i>PlainGlobal</i>	aix
processor <integer>	processors	<processor>	<world>	<i>NumberedGlobal</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
product <string> of <object_repository>	products	<product>	<object_repository>	<i>Named</i>	aix
product of <fileset>	products	<product>	<fileset>	<i>Plain</i>	aix
product of <integer>	products	<integer>	<integer>	<i>Plain</i>	core
product of <license>	products	<bes product>	<license>	<i>Plain</i>	aix
product of <object_repository>	products	<product>	<object_repository>	<i>Plain</i>	aix
property <string>	properties	<property>	<world>	<i>NamedGlobal</i>	core
property <string> of <type>	properties	<property>	<type>	<i>Named</i>	core
property of <type>	properties	<property>	<type>	<i>Plain</i>	core
property returning <type>	properties returning	<property>	<world>	<i>Index<type>Global</i>	core
property returning <type> of <type>	properties returning	<property>	<type>	<i>Index<type></i>	core
q <string> of <html>	qs	<html>	<html>	<i>Named</i>	core
q <string> of <string>	qs	<html>	<string>	<i>Named</i>	core
q of <html>	qs	<html>	<html>	<i>Plain</i>	core
q of <string>	qs	<html>	<string>	<i>Plain</i>	core
ram	rams	<ram>	<world>	<i>PlainGlobal</i>	aix
random access memory	random access memories	<ram>	<world>	<i>PlainGlobal</i>	aix
range after <time> of <time range>	ranges after	<time range>	<time range>	<i>Index<time></i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
range before <time> of <time range>	ranges before	<time range>	<time range>	<i>Index<time></i>	core
read of <mode_mask>	reads	<boolean>	<mode_mask>	<i>Plain</i>	aix
regex <string>	regexes	<regular expression>	<world>	<i>NamedGlobal</i>	regex
regex escape of <string>	regex escapes	<string>	<string>	<i>Plain</i>	regex
registrar number of <license>	registrar numbers	<integer>	<license>	<i>Plain</i>	aix
registration address of <client>	registration addresses	<ipv4or6 address>	<client>	<i>Plain</i>	aix
registration cidr address of <client>	registration cidr addresses	<string>	<client>	<i>Plain</i>	aix
registration mac address of <client>	registration mac addresses	<string>	<client>	<i>Plain</i>	aix
registration subnet address of <client>	registration subnet addresses	<ipv4or6 address>	<client>	<i>Plain</i>	aix
regular expression <string>	regular expressions	<regular expression>	<world>	<i>NamedGlobal</i>	regex
relay service	relay services	<service>	<world>	<i>PlainGlobal</i>	aix
release of <operating system>	releases	<string>	<operating system>	<i>Plain</i>	aix
relevance of <fixlet>	relevances	<boolean>	<fixlet>	<i>Plain</i>	aix
relevant fixlet of <site>	relevant fixlets	<fixlet>	<site>	<i>Plain</i>	aix
relevant offer action of <site>	relevant offer actions	<action>	<site>	<i>Plain</i>	aix
result type of <binary operator>	result types	<type>	<binary operator>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
result type of <cast>	result types	<type>	<cast>	<i>Plain</i>	core
result type of <property>	result types	<type>	<property>	<i>Plain</i>	core
result type of <unary operator>	result types	<type>	<unary operator>	<i>Plain</i>	core
right operand type of <binary operator>	right operand types	<type>	<binary operator>	<i>Plain</i>	core
right shift <integer> of <bit set>	right shifts	<bit set>	<bit set>	<i>Numbered</i>	core
root folder	root folders	<folder>	<world>	<i>PlainGlobal</i>	aix
root server	root servers	<root server>	<world>	<i>PlainGlobal</i>	aix
rope <string>	ropes	<rope>	<world>	<i>NamedGlobal</i>	core
runlevel	runlevels	<runlevel>	<world>	<i>PlainGlobal</i>	aix
running of <application usage summary>	runnings	<boolean>	<application usage summary>	<i>Plain</i>	aix
running service <string>	running services	<service>	<world>	<i>NamedGlobal</i>	aix
samp <string> of <html>	samps	<html>	<html>	<i>Named</i>	core
samp <string> of <string>	samps	<html>	<string>	<i>Named</i>	core
samp of <html>	samps	<html>	<html>	<i>Plain</i>	core
samp of <string>	samps	<html>	<string>	<i>Plain</i>	core
saturday	saturdays	<day of week>	<world>	<i>PlainGlobal</i>	core
seat count state of <license>	seat count states	<string>	<license>	<i>Plain</i>	aix
seat of <license>	seats	<integer>	<license>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
second	seconds	<time interval>	<world>	<i>PlainGlobal</i>	core
second_of_minute of <time of day with time zone>	seconds_of_min ute	<integer>	<time of day with time zone>	<i>Plain</i>	core
second_of_minute of <time of day>	seconds_of_min ute	<integer>	<time of day>	<i>Plain</i>	core
section <string> of <file>	sections	<file section>	<file>	<i>Named</i>	aix
selected server	selected servers	<selected server>	<world>	<i>PlainGlobal</i>	aix
september	septembers	<month>	<world>	<i>PlainGlobal</i>	core
september <integer>	septembers	<day of year>	<world>	<i>NumberedGlobal</i>	core
september <integer> of <integer>	septembers	<date>	<integer>	<i>Numbered</i>	core
september of <integer>	septembers	<month and year>	<integer>	<i>Plain</i>	core
service <string>	services	<service>	<world>	<i>NamedGlobal</i>	aix
set of <integer>	sets	<integer set>	<integer>	<i>Plain</i>	core
set of <string>	sets	<string set>	<string>	<i>Plain</i>	core
setgid of <filesystem object>	setgids	<boolean>	<filesystem object>	<i>Plain</i>	aix
setgid of <mode>	setgids	<boolean>	<mode>	<i>Plain</i>	aix
setting <string> of <client>	settings	<setting>	<client>	<i>Named</i>	aix
setting <string> of <site>	settings	<setting>	<site>	<i>Named</i>	aix
setting of <client>	settings	<setting>	<client>	<i>Plain</i>	aix
setting of <site>	settings	<setting>	<site>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
setuid of <filesystem object>	setuids	<boolean>	<filesystem object>	<i>Plain</i>	aix
setuid of <mode>	setuids	<boolean>	<mode>	<i>Plain</i>	aix
sha1 of <file>	sha1s	<string>	<file>	<i>Plain</i>	aix
sha1 of <x509 certificate>	sha1s	<string>	<x509 certificate>	<i>Plain</i>	core
significant digits <integer> of <hertz>	significant digitss	<hertz>	<hertz>	<i>Numbered</i>	core
significant digits <integer> of <integer>	significant digitss	<integer>	<integer>	<i>Numbered</i>	core
singular name of <property>	singular names	<string>	<property>	<i>Plain</i>	core
site	sites	<site>	<world>	<i>PlainGlobal</i>	aix
site <string>	sites	<site>	<world>	<i>NamedGlobal</i>	aix
site number of <license>	site numbers	<integer>	<license>	<i>Plain</i>	aix
site of <fixlet>	sites	<site>	<fixlet>	<i>Plain</i>	aix
site tag of <site>	site tags	<string>	<site>	<i>Plain</i>	aix
site url of <bes product>	site urls	<string>	<bes product>	<i>Plain</i>	aix
site version list <string>	site version lists	<site version list>	<world>	<i>NamedGlobal</i>	core
site version list of <site>	site version lists	<site version list>	<site>	<i>Plain</i>	aix
size of <application usage summary instance>	sizes	<integer>	<application usage summary instance>	<i>Plain</i>	aix
size of <file>	sizes	<integer>	<file>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
size of <filesystem>	sizes	<integer>	<filesystem>	<i>Plain</i>	aix
size of <integer set>	sizes	<integer>	<integer set>	<i>Plain</i>	core
size of <ram>	sizes	<integer>	<ram>	<i>Plain</i>	aix
size of <string set>	sizes	<integer>	<string set>	<i>Plain</i>	core
size of <swap>	sizes	<integer>	<swap>	<i>Plain</i>	aix
size of <type>	sizes	<integer>	<type>	<i>Plain</i>	core
small <string> of <html>	smalls	<html>	<html>	<i>Named</i>	core
small <string> of <string>	smalls	<html>	<string>	<i>Named</i>	core
small of <html>	smalls	<html>	<html>	<i>Plain</i>	core
small of <string>	smalls	<html>	<string>	<i>Plain</i>	core
socket file <filesystem object>	socket files	<socket file>	<world>	<i>Index<filesystem object>Global</i>	aix
socket file <string>	socket files	<socket file>	<world>	<i>NamedGlobal</i>	aix
socket file <string> of <folder>	socket files	<socket file>	<folder>	<i>Named</i>	aix
socket file <symlink>	socket files	<socket file>	<world>	<i>Index<symlink>Global</i>	aix
socket file of <folder>	socket files	<socket file>	<folder>	<i>Plain</i>	aix
span <string> of <html>	spans	<html>	<html>	<i>Named</i>	core
span <string> of <string>	spans	<html>	<string>	<i>Named</i>	core
span of <html>	spans	<html>	<html>	<i>Plain</i>	core
span of <string>	spans	<html>	<string>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
speed of <processor>	speeds	<hertz>	<processor>	<i>Plain</i>	aix
start date of <license>	start dates	<time>	<license>	<i>Plain</i>	aix
start of <substring>	starts	<string position>	<substring>	<i>Plain</i>	core
start of <time range>	starts	<time>	<time range>	<i>Plain</i>	core
state of <service>	states	<string>	<service>	<i>Plain</i>	aix
status of <action>	statuss	<string>	<action>	<i>Plain</i>	aix
sticky of <mode>	stickies	<boolean>	<mode>	<i>Plain</i>	aix
string <string>	strings	<string>	<world>	<i>NamedGlobal</i>	core
string version of <application usage summary instance>	string versions	<string>	<application usage summary instance>	<i>Plain</i>	aix
strong <string> of <html>	strongs	<html>	<html>	<i>Named</i>	core
strong <string> of <string>	strongs	<html>	<string>	<i>Named</i>	core
strong of <html>	strongs	<html>	<html>	<i>Plain</i>	core
strong of <string>	strongs	<html>	<string>	<i>Plain</i>	core
sub <string> of <html>	subs	<html>	<html>	<i>Named</i>	core
sub <string> of <string>	subs	<html>	<string>	<i>Named</i>	core
sub of <html>	subs	<html>	<html>	<i>Plain</i>	core
sub of <string>	subs	<html>	<string>	<i>Plain</i>	core
subnet address of <network adapter interface>	subnet addresses	<ipv4or6 address>	<network adapter interface>	<i>Plain</i>	aix

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

Key Phrase	Plural	Creates a	From a	Form	Ref
sunday	sundays	<day of week>	<world>	<i>PlainGlobal</i>	core
sup <string> of <html>	sups	<html>	<html>	<i>Named</i>	core
sup <string> of <string>	sups	<html>	<string>	<i>Named</i>	core
sup of <html>	sups	<html>	<html>	<i>Plain</i>	core
sup of <string>	sups	<html>	<string>	<i>Plain</i>	core
swap	swaps	<swap>	<world>	<i>PlainGlobal</i>	aix
symbol of <binary operator>	symbols	<string>	<binary operator>	<i>Plain</i>	core
symbol of <unary operator>	symbols	<string>	<unary operator>	<i>Plain</i>	core
symlink <filesystem object>	symlinks	<symlink>	<world>	<i>Index<filesystem object>Global</i>	aix
symlink <string>	symlinks	<symlink>	<world>	<i>NamedGlobal</i>	aix
symlink <string> of <folder>	symlinks	<symlink>	<folder>	<i>Named</i>	aix
symlink <symlink>	symlinks	<symlink>	<world>	<i>Index<symlink>G lobal</i>	aix
symlink of <folder>	symlinks	<symlink>	<folder>	<i>Plain</i>	aix
system language	system languages	<string>	<world>	<i>PlainGlobal</i>	aix
system locale	system locales	<language>	<world>	<i>PlainGlobal</i>	aix
system ui language	system ui languages	<language>	<world>	<i>PlainGlobal</i>	aix
table <string> of <html>	tables	<html>	<html>	<i>Named</i>	core
table <string> of <string>	tables	<html>	<string>	<i>Named</i>	core

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

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

Key Phrase	Plural	Creates a	From a	Form	Ref
total run count of <application usage summary instance>	total run counts	<integer>	<application usage summary instance>	<i>Plain</i>	aix
total run count of <application usage summary>	total run counts	<integer>	<application usage summary>	<i>Plain</i>	aix
total size of <download storage folder>	total sizes	<integer>	<download storage folder>	<i>Plain</i>	aix
total space of <filesystem>	total spaces	<integer>	<filesystem>	<i>Plain</i>	aix
tr <string> of <html>	trs	<html>	<html>	<i>Named</i>	core
tr <string> of <string>	trs	<html>	<string>	<i>Named</i>	core
tr of <html>	trs	<html>	<html>	<i>Plain</i>	core
tr of <string>	trs	<html>	<string>	<i>Plain</i>	core
true	true	<boolean>	<world>	<i>PlainGlobal</i>	core
tt <string> of <html>	tts	<html>	<html>	<i>Named</i>	core
tt <string> of <string>	tts	<html>	<string>	<i>Named</i>	core
tt of <html>	tts	<html>	<html>	<i>Plain</i>	core
tt of <string>	tts	<html>	<string>	<i>Plain</i>	core
tty of <user>	ttys	<string>	<user>	<i>Plain</i>	aix
tuesday	tuesdays	<day of week>	<world>	<i>PlainGlobal</i>	core
tuple string item <integer> of <string>	tuple string items	<string>	<string>	<i>Numbered</i>	core
tuple string item of <string>	tuple string items	<string>	<string>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
two digit hour of <time of day with time zone>	two digit hours	<string>	<time of day with time zone>	<i>Plain</i>	core
two digit hour of <time of day>	two digit hours	<string>	<time of day>	<i>Plain</i>	core
two digit minute of <time of day with time zone>	two digit minutes	<string>	<time of day with time zone>	<i>Plain</i>	core
two digit minute of <time of day>	two digit minutes	<string>	<time of day>	<i>Plain</i>	core
two digit second of <time of day with time zone>	two digit seconds	<string>	<time of day with time zone>	<i>Plain</i>	core
two digit second of <time of day>	two digit seconds	<string>	<time of day>	<i>Plain</i>	core
type of <filesystem>	types	<string>	<filesystem>	<i>Plain</i>	aix
type of <license>	types	<string>	<license>	<i>Plain</i>	aix
type of <processor>	types	<string>	<processor>	<i>Plain</i>	aix
type of <site>	types	<string>	<site>	<i>Plain</i>	aix
uid of <filesystem object>	uids	<integer>	<filesystem object>	<i>Plain</i>	aix
uid of <symlink>	uids	<integer>	<symlink>	<i>Plain</i>	aix
ul <string> of <html>	uls	<html>	<html>	<i>Named</i>	core
ul <string> of <string>	uls	<html>	<string>	<i>Named</i>	core
ul of <html>	uls	<html>	<html>	<i>Plain</i>	core
ul of <string>	uls	<html>	<string>	<i>Plain</i>	core
unary operator <string>	unary operators	<unary operator>	<world>	<i>NamedGlobal</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
unary operator returning <type>	unary operators returning	<unary operator>	<world>	<i>Index<type>Global</i>	core
union of <integer set>	unions	<integer set>	<integer set>	<i>Plain</i>	core
union of <string set>	unions	<string set>	<string set>	<i>Plain</i>	core
unique value of <date>	unique values	<date with multiplicity>	<date>	<i>Plain</i>	core
unique value of <day of month>	unique values	<day of month with multiplicity>	<day of month>	<i>Plain</i>	core
unique value of <day of week>	unique values	<day of week with multiplicity>	<day of week>	<i>Plain</i>	core
unique value of <day of year>	unique values	<day of year with multiplicity>	<day of year>	<i>Plain</i>	core
unique value of <hertz>	unique values	<hertz with multiplicity>	<hertz>	<i>Plain</i>	core
unique value of <integer>	unique values	<integer with multiplicity>	<integer>	<i>Plain</i>	core
unique value of <ipv4 address>	unique values	<ipv4 address with multiplicity>	<ipv4 address>	<i>Plain</i>	core
unique value of <ipv4or6 address>	unique values	<ipv4or6 address with multiplicity>	<ipv4or6 address>	<i>Plain</i>	core
unique value of <ipv6 address>	unique values	<ipv6 address with multiplicity>	<ipv6 address>	<i>Plain</i>	core
unique value of <month and year>	unique values	<month and year with multiplicity>	<month and year>	<i>Plain</i>	core
unique value of <month>	unique values	<month with multiplicity>	<month>	<i>Plain</i>	core
unique value of <number of months>	unique values	<number of months with multiplicity>	<number of months>	<i>Plain</i>	core
unique value of <site version list>	unique values	<site version list with multiplicity>	<site version list>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
unique value of <string>	unique values	<string with multiplicity>	<string>	<i>Plain</i>	core
unique value of <time interval>	unique values	<time interval with multiplicity>	<time interval>	<i>Plain</i>	core
unique value of <time of day with time zone>	unique values	<time of day with time zone with multiplicity>	<time of day with time zone>	<i>Plain</i>	core
unique value of <time of day>	unique values	<time of day with multiplicity>	<time of day>	<i>Plain</i>	core
unique value of <time range>	unique values	<time range with multiplicity>	<time range>	<i>Plain</i>	core
unique value of <time zone>	unique values	<time zone with multiplicity>	<time zone>	<i>Plain</i>	core
unique value of <time>	unique values	<time with multiplicity>	<time>	<i>Plain</i>	core
unique value of <version>	unique values	<version with multiplicity>	<version>	<i>Plain</i>	core
unique value of <year>	unique values	<year with multiplicity>	<year>	<i>Plain</i>	core
universal time <string>	universal times	<time>	<world>	<i>NamedGlobal</i>	core
universal time zone	universal time zones	<time zone>	<world>	<i>PlainGlobal</i>	core
unix of <operating system>	unixes	<boolean>	<operating system>	<i>Plain</i>	aix
unordered list <string> of <html>	unordered lists	<html>	<html>	<i>Named</i>	core
unordered list <string> of <string>	unordered lists	<html>	<string>	<i>Named</i>	core
unordered list of <html>	unordered lists	<html>	<html>	<i>Plain</i>	core
unordered list of <string>	unordered lists	<html>	<string>	<i>Plain</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
up of <network adapter interface>	ups	<boolean>	<network adapter interface>	<i>Plain</i>	aix
up of <network adapter>	ups	<boolean>	<network adapter>	<i>Plain</i>	aix
up of <network ip interface>	ups	<boolean>	<network ip interface>	<i>Plain</i>	aix
update of <fileset>	updates	<integer>	<fileset>	<i>Plain</i>	aix
upload progress of <client>	upload progresses	<string>	<client>	<i>Plain</i>	aix
ups of <power level>	upss	<boolean>	<power level>	<i>Plain</i>	aix
uptime of <operating system>	uptimes	<time interval>	<operating system>	<i>Plain</i>	aix
url of <site>	urls	<string>	<site>	<i>Plain</i>	aix
used amount of <ram>	used amounts	<integer>	<ram>	<i>Plain</i>	aix
used amount of <swap>	used amounts	<integer>	<swap>	<i>Plain</i>	aix
used file count of <filesystem>	used file counts	<integer>	<filesystem>	<i>Plain</i>	aix
used percent of <filesystem>	used percents	<integer>	<filesystem>	<i>Plain</i>	aix
used space of <filesystem>	used spaces	<integer>	<filesystem>	<i>Plain</i>	aix
user	users	<user>	<world>	<i>PlainGlobal</i>	aix
user <string>	users	<user>	<world>	<i>NamedGlobal</i>	aix
user execute of <filesystem object>	user executes	<boolean>	<filesystem object>	<i>Plain</i>	aix
user mask of <filesystem object>	user masks	<integer>	<filesystem object>	<i>Plain</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
user mask of <mode>	user masks	<mode_mask>	<mode>	<i>Plain</i>	aix
user name of <filesystem object>	user names	<string>	<filesystem object>	<i>Plain</i>	aix
user name of <symlink>	user names	<string>	<symlink>	<i>Plain</i>	aix
user read of <filesystem object>	user reads	<boolean>	<filesystem object>	<i>Plain</i>	aix
user write of <filesystem object>	user writes	<boolean>	<filesystem object>	<i>Plain</i>	aix
usual name of <property>	usual names	<string>	<property>	<i>Plain</i>	core
value accessible of <symlink>	values accessible	<boolean>	<symlink>	<i>Plain</i>	aix
value of <environment variable>	values	<string>	<environment variable>	<i>Plain</i>	aix
value of <fixlet_header>	values	<string>	<fixlet_header>	<i>Plain</i>	aix
value of <runlevel>	values	<string>	<runlevel>	<i>Plain</i>	aix
value of <setting>	values	<string>	<setting>	<i>Plain</i>	aix
value of <symlink>	values	<string>	<symlink>	<i>Plain</i>	aix
var <string> of <html>	vars	<html>	<html>	<i>Named</i>	core
var <string> of <string>	vars	<html>	<string>	<i>Named</i>	core
var of <html>	vars	<html>	<html>	<i>Plain</i>	core
var of <string>	vars	<html>	<string>	<i>Plain</i>	core
variable <string> of <environment>	variables	<environment variable>	<environment>	<i>Named</i>	aix

Key Phrase	Plural	Creates a	From a	Form	Ref
variable of <environment>	variables	<environment variable>	<environment>	<i>Plain</i>	aix
variable of <file>	variables	<string>	<file>	<i>Plain</i>	aix
version <string>	versions	<version>	<world>	<i>NamedGlobal</i>	core
version of <application usage summary instance>	versions	<version>	<application usage summary instance>	<i>Plain</i>	aix
version of <bios>	versions	<string>	<bios>	<i>Plain</i>	aix
version of <client>	versions	<version>	<client>	<i>Plain</i>	aix
version of <current relay>	versions	<version>	<current relay>	<i>Plain</i>	aix
version of <fileset>	versions	<version>	<fileset>	<i>Plain</i>	aix
version of <service>	versions	<version>	<service>	<i>Plain</i>	aix
version of <site>	versions	<integer>	<site>	<i>Plain</i>	aix
version string <string> of <module>	version strings	<string>	<module>	<i>Named</i>	core
volume group <string> of <logical volume manager>	volume groups	<volume group>	<logical volume manager>	<i>Named</i>	aix
volume group of <logical volume manager>	volume groups	<volume group>	<logical volume manager>	<i>Plain</i>	aix
volume group of <logical volume>	volume groups	<volume group>	<logical volume>	<i>Plain</i>	aix
waiting for download of <action>	waiting for downloads	<boolean>	<action>	<i>Plain</i>	aix
wake on lan subnet cidr string	wake on lan subnet cidr strings	<string>	<world>	<i>PlainGlobal</i>	aix
wednesday	wednesdays	<day of week>	<world>	<i>PlainGlobal</i>	core

Key Phrase	Plural	Creates a	From a	Form	Ref
week	weeks	<time interval>	<world>	<i>PlainGlobal</i>	core
weight of <selected server>	weights	<integer>	<selected server>	<i>Plain</i>	aix
windows of <operating system>	windoweses	<boolean>	<operating system>	<i>Plain</i>	aix
windows server count of <bes product>	windows server counts	<integer>	<bes product>	<i>Plain</i>	aix
workstation count of <bes product>	workstation counts	<integer>	<bes product>	<i>Plain</i>	aix
write of <mode_mask>	writes	<boolean>	<mode_mask>	<i>Plain</i>	aix
year	years	<number of months>	<world>	<i>PlainGlobal</i>	core
year <integer>	years	<year>	<world>	<i>NumberedGlobal</i>	core
year <string>	years	<year>	<world>	<i>NamedGlobal</i>	core
year of <date>	years	<year>	<date>	<i>Plain</i>	core
year of <month and year>	years	<year>	<month and year>	<i>Plain</i>	core
zone of <time of day with time zone>	zones	<time zone>	<time of day with time zone>	<i>Plain</i>	core
zoned time_of_day <string>	zoned times_of_day	<time of day with time zone>	<world>	<i>NamedGlobal</i>	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	<string>	<action lock state>
<binary operator> as string	<string>	<binary operator>
<bios> as string	<string>	<bios>
<bit set> as integer	<integer>	<bit set>
<bit set> as string	<string>	<bit set>
<boolean> as boolean	<boolean>	<boolean>
<boolean> as string	<string>	<boolean>
<cast> as string	<string>	<cast>
<date> as string	<string>	<date>
<day of month> as integer	<integer>	<day of month>
<day of month> as string	<string>	<day of month>
<day of month> as two digits	<string>	<day of month>
<day of week> as string	<string>	<day of week>
<day of week> as three letters	<string>	<day of week>
<day of year> as string	<string>	<day of year>
<environment variable> as string	<string>	<environment variable>
<file content> as lowercase	<file content>	<file content>
<file content> as uppercase	<file content>	<file content>
<fileset> as string	<string>	<fileset>
<filesystem object> as device file	<device file>	<filesystem object>

Key Phrase	Creates a	From a
<filesystem object> as fifo file	<fifo file>	<filesystem object>
<filesystem object> as socket file	<socket file>	<filesystem object>
<filesystem object> as string	<string>	<filesystem object>
<filesystem object> as symlink	<symlink>	<filesystem object>
<hertz> as string	<string>	<hertz>
<html> as html	<html>	<html>
<html> as string	<string>	<html>
<integer> as bit set	<bit set>	<integer>
<integer> as bits	<bit set>	<integer>
<integer> as day_of_month	<day of month>	<integer>
<integer> as hexadecimal	<string>	<integer>
<integer> as integer	<integer>	<integer>
<integer> as month	<month>	<integer>
<integer> as string	<string>	<integer>
<integer> as year	<year>	<integer>
<ip version> as string	<string>	<ip version>
<ipv4 address> as ipv4or6 address	<ipv4or6 address>	<ipv4 address>
<ipv4 address> as ipv6 address	<ipv6 address>	<ipv4 address>
<ipv4 address> as string	<string>	<ipv4 address>
<ipv4or6 address> as compressed string	<string>	<ipv4or6 address>
<ipv4or6 address> as compressed string with ipv4	<string>	<ipv4or6 address>
<ipv4or6 address> as compressed string with ipv4 with zone index	<string>	<ipv4or6 address>

Key Phrase	Creates a	From a
<ipv4or6 address> as compressed string with zone index	<string>	<ipv4or6 address>
<ipv4or6 address> as string	<string>	<ipv4or6 address>
<ipv4or6 address> as string with ipv4	<string>	<ipv4or6 address>
<ipv4or6 address> as string with ipv4 with zone index	<string>	<ipv4or6 address>
<ipv4or6 address> as string with leading zeros	<string>	<ipv4or6 address>
<ipv4or6 address> as string with leading zeros with zone index	<string>	<ipv4or6 address>
<ipv4or6 address> as string with zone index	<string>	<ipv4or6 address>
<ipv6 address> as compressed string	<string>	<ipv6 address>
<ipv6 address> as compressed string with ipv4	<string>	<ipv6 address>
<ipv6 address> as compressed string with ipv4 with zone index	<string>	<ipv6 address>
<ipv6 address> as compressed string with zone index	<string>	<ipv6 address>
<ipv6 address> as ipv4or6 address	<ipv4or6 address>	<ipv6 address>
<ipv6 address> as string	<string>	<ipv6 address>
<ipv6 address> as string with ipv4	<string>	<ipv6 address>
<ipv6 address> as string with ipv4 with zone index	<string>	<ipv6 address>
<ipv6 address> as string with leading zeros	<string>	<ipv6 address>
<ipv6 address> as string with leading zeros with zone index	<string>	<ipv6 address>
<ipv6 address> as string with zone index	<string>	<ipv6 address>
<language> as string	<string>	<language>

Key Phrase	Creates a	From a
<logical volume> as string	<string>	<logical volume>
<mode_mask> as integer	<integer>	<mode_mask>
<mode_mask> as string	<string>	<mode_mask>
<mode> as octal string	<string>	<mode>
<mode> as string	<string>	<mode>
<month and year> as string	<string>	<month and year>
<month> as integer	<integer>	<month>
<month> as string	<string>	<month>
<month> as three letters	<string>	<month>
<month> as two digits	<string>	<month>
<number of months> as string	<string>	<number of months>
<operating system> as string	<string>	<operating system>
<power level> as string	<string>	<power level>
<primary language> as string	<string>	<primary language>
<product> as string	<string>	<product>
<property> as string	<string>	<property>
<rope> as string	<string>	<rope>
<runlevel> as string	<string>	<runlevel>
<setting> as string	<string>	<setting>
<site version list> as string	<string>	<site version list>
<string> as boolean	<boolean>	<string>
<string> as date	<date>	<string>

Key Phrase	Creates a	From a
<string> as day_of_month	<day of month>	<string>
<string> as day_of_week	<day of week>	<string>
<string> as hexadecimal	<string>	<string>
<string> as html	<html>	<string>
<string> as integer	<integer>	<string>
<string> as ipv4or6 address	<ipv4or6 address>	<string>
<string> as left trimmed string	<string>	<string>
<string> as local time	<time>	<string>
<string> as local zoned time_of_day	<time of day with time zone>	<string>
<string> as lowercase	<string>	<string>
<string> as month	<month>	<string>
<string> as right trimmed string	<string>	<string>
<string> as site version list	<site version list>	<string>
<string> as string	<string>	<string>
<string> as time	<time>	<string>
<string> as time interval	<time interval>	<string>
<string> as time zone	<time zone>	<string>
<string> as time_of_day	<time of day>	<string>
<string> as trimmed string	<string>	<string>
<string> as universal time	<time>	<string>
<string> as universal zoned time_of_day	<time of day with time zone>	<string>
<string> as uppercase	<string>	<string>
<string> as version	<version>	<string>

Key Phrase	Creates a	From a
<string> as year	<year>	<string>
<string> as zoned time_of_day	<time of day with time zone>	<string>
<symlink> as device file	<device file>	<symlink>
<symlink> as file	<file>	<symlink>
<symlink> as folder	<folder>	<symlink>
<symlink> as socket file	<socket file>	<symlink>
<symlink> as string	<string>	<symlink>
<symlink> as symlink	<symlink>	<symlink>
<time interval> as string	<string>	<time interval>
<time of day with time zone> as string	<string>	<time of day with time zone>
<time of day> as string	<string>	<time of day>
<time range> as string	<string>	<time range>
<time zone> as string	<string>	<time zone>
<time> as local string	<string>	<time>
<time> as string	<string>	<time>
<time> as universal string	<string>	<time>
<type> as string	<string>	<type>
<unary operator> as string	<string>	<unary operator>
<undefined> as string	<string>	<undefined>
<version> as string	<string>	<version>
<version> as version	<version>	<version>
<volume group> as string	<string>	<volume group>
<year> as integer	<integer>	<year>

Key Phrase	Creates a	From a
<year> as string	<string>	<year>

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