

Fscript Reference Guide

iPlanet™ Unified Development Server

Version 5.0

August 2001

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Contents

List of Tables	9
List of Procedures	11
Preface	13
Product Name Change	13
Audience for This Guide	14
Organization of This Guide	14
Text Conventions	14
Syntax Statements	15
Other Documentation Resources	16
iPlanet UDS Documentation	16
Express Documentation	17
WebEnterprise and WebEnterprise Designer Documentation	17
Online Help	17
iPlanet UDS Example Programs	17
Viewing and Searching PDF Files	18
Chapter 1 Using Fscript	21
About Fscript	21
Starting Fscript	22
fscript Command	22
Portable Syntax (All Platforms)	22
OpenVMS Syntax	23
Specifying a Repository	25
Specifying a Workspace	25
Specifying Model Node Names	26
Running A Script File	26
Exiting Fscript	26
Working with Objects in Fscript	26

Using File Names in Fscript Commands	28
Working with Directories	28
File Naming Conventions	28
Referencing Directory Paths using Environment Variables	29
Fscript Commands Listed By Task	29
Working with Repositories	30
Working with the Workspaces	31
Working with Any Plans	33
Working with Projects and Project Components	33
Working with Express Components	35
Partitioning, Testing, and Distributing Applications	36
Configuration Locks	38
Building Libraries	40
Writing Scripts	41
Working with Fscript	42
Working with Files and the Operating System	43
Managing the Development Environment	44
Chapter 2 Fscript Commands	45
AddAlias	46
AddPath	46
AddProjToLib	48
AddSupplierPlan	49
AssignAppComp	50
AttachToCentral	51
BackupRepos	52
BranchAllComps	52
BranchComp	53
BranchPlan	53
Cd	54
CheckoutAllComps	55
CheckoutComp	55
CheckoutPlan	56
Chmod	57
Close	58
CollectMem	58
CommentOff	58
CommentOn	59
Commit	59
Compile	59
CompilePlan	61
CompileWorkspace	62
CopyFile	62

Cp	63
Delay	63
DetachFromCentral	64
Directory	65
DisableAppComp	66
Duplicate	67
EnableAppComp	67
ExcludePlan	68
ExecCmd	69
Exit	71
ExitIfNoEnvMgr	71
ExitStatus	71
ExportClass	72
ExportPlan	73
ExportTemplate	74
ExportWindowClass	75
ExportWorkspace	76
FindActEnv	76
FindAppComp	77
FindEnv	77
FindPlan	78
ForceWorkspaceUnreserved	79
Help	80
ImportClass	81
ImportPlan	82
ImportWorkspace	84
Include	85
IncludePublicPlan	86
IncreaseCompatLevel	87
IntegrateWorkspace	87
ListChangesInWorkspace	89
ListComps	90
ListEnvs	91
ListFile	92
ListFiles	92
ListPlans	93
ListPublicPlans	94
ListServiceApps	95
ListTestApps	96
ListWorkspaces	97
Ls	97
MakeAppDistrib	98
MemStats	100

MkDir	102
ModLogger	102
MoveServiceToPart	103
Mv	104
NewPart	105
NewPlan	105
NewProj	107
NewWorkspace	108
Open	109
Partition	111
PrintEnv	112
Pwd	112
Quit	113
ReadIntoFile	113
RemoveAlias	114
RemoveConf	114
RemoveComp	115
RemoveFile	116
RemoveProjFromLib	116
RemovePublicPlan	117
RemoveSupplierPlan	117
RemoveWorkspace	118
RenameComp	119
Repeat	119
RevertProj	120
Rm	120
Run	120
RunDistrib	122
RunFile	123
Save	124
ScmExportComponent	124
ScmExportProject	125
Script	126
SearchFile	126
SetAppCompCompiled	127
SetAppID	128
SetAppletFlag	129
SetDefault	130
SetEnv	130
SetOutFile	131
SetPartArgs	131
SetPartRepCount	133
SetPassword	134

SetPath	135
SetPrefNode	137
SetProjRestricted	137
SetProjStart	138
SetProjType	139
SetRepos	140
SetSearchPath	141
SetServiceEOSInfo	142
SetServiceEOSAttr	143
SetWorkspace	144
Shell	145
ShowAlias	146
ShowApp	146
ShowAppID	147
ShowCompHistory	147
ShowEnv	148
ShowExpansions	149
ShowIntegrations	149
ShowLockedWorkspaces	150
ShowPath	151
ShowPlan	151
ShowPlanHistory	152
ShowReposInfo	152
ShowWorkspace	153
SilentOff	153
SilentOn	153
Step	154
StopRemoteParts	154
TestApp	155
UnassignAppComp	156
UndoBranchComp	157
UndoBranchPlan	158
UndoCheckoutComp	158
UndoCheckoutPlan	159
UndoRemoveComp	159
UnlockWorkspace	160
UpdateWorkspace	161
UseLocal	162
UsePortable	163
UseServiceFromApp	164
ValidatePlan	165
Vi	165
WhichFile	166

Appendix A Fscript Command Summary	167
Fscript Command Summary	167
Appendix B Memory and Logger Flags	177
-Fl Flag (iPlanet UDS Logger)	177
File Name	178
File Filter	178
Message Type Option	178
Service Type Option	179
Group Number Option	179
Level Number Option	180
-Fm Flag (Memory Manager)	181
Setting Maximum and Minimum Size of the Memory Heap	183
Appendix C Commands for OS/390 Transaction Adapter Builder	185
AddAPPCInfo	187
AddExchange	187
AddInputArgument	188
AddOutputArgument	188
AddRecord	189
AddTransactionProxy	189
FindExchange	190
FindTransactionProxy	190
GenerateTransactionProxy	190
RemoveArgument	191
RemoveExchange	191
RemoveRecord	191
RemoveTransactionProxy	192
ShowAllTransactionProxies	192
ShowRecords	192
ShowTransactionProxy	192
SwitchTruncOption	193
UseServiceObject	193
Index	195

List of Tables

Table 1-1	Command Line Flags for the Fscript Command	23
Table 1-2	Objects You Can Use As Current Objects for Fscript Commands	27
Table 1-3	Commands to Work With an iPlanet UDS Repository	30
Table 1-4	Commands to Work With an iPlanet UDS Workspace	31
Table 1-5	Commands to Work With Any Kind of iPlanet UDS Plan	33
Table 1-6	Commands to Work With iPlanet UDS Projects and Project Components	34
Table 1-8	Commands to Partition, Test, and Distribute an Application	36
Table 1-7	Commands to Work With Express Application Models and Business Models	36
Table 1-9	Commands That Register Configuration Locks	39
Table 1-10	Commands That Release the Configuration Lock	39
Table 1-11	Commands to Build Libraries	40
Table 1-12	Commands You Can Use Within Scripts	41
Table 1-13	Commands You Can Use to Work With Fscript Itself	42
Table 1-14	Commands you Can Use to Work With the Operating System	43
Table 1-15	Commands to Manage Your Development Environment	44
Table 2-1	Output Descriptions for MemStats Command	101
Table 2-2	XML Server Attribute Names and Default Values	144
Table A-1	Fscript Commands Summary	167
Table B-1	Message Types Filters and Their Meanings	178
Table B-2	Memory Options	181
Table C-1	Fscript Commands for Transaction Adapter Builder	185

List of Procedures

- To copy the documentation to a client or server 18
- To view and search the documentation 18
- To start the Fscript utility on Windows NT platforms 22
- To start the Fscript utility on UNIX, OpenVMS, or Windows NT platform 22
- To assign an added project to nodes in the library configuration 48
- To use an existing library configuration 49
- To create a new library configuration 49
- To recover from a lost or corrupted shadow repository 80
- To rename a plan in the detached shadow repository 106
- To rename a project in the detached shadow repository 107
- To open a workspace 109
- To set the current configuration 115
- To remove an integrated plan from the repository 117
- To test an application generated from an application model 121
- To use the RunDistrib command for the first time for an application 122
- To specify the current configuration 131
- To specify the current configuration 133
- To open a session on another repository and workspace 140
- To open another repository and workspace 145
- To test the client partition of an application using Fscript 156

Preface

The *Fscript Reference Guide* contains usage and reference information for the iPlanet UDS Fscript utility.

The Fscript utility is a command-line interface that you can use to import and export TOOL code, interact with your development repository, and configure and make application distributions.

This preface contains the following sections:

- “Product Name Change” on page 13
- “Audience for This Guide” on page 14
- “Organization of This Guide” on page 14
- “Text Conventions” on page 14
- “Other Documentation Resources” on page 16
- “iPlanet UDS Example Programs” on page 17
- “Viewing and Searching PDF Files” on page 18

Product Name Change

Forte 4GL has been renamed the iPlanet Unified Development Server. You will see full references to this name, as well as the abbreviations iPlanet UDS and UDS.

Audience for This Guide

This guide assumes that you are familiar with writing TOOL code and interacting with the development repository. You should have the following guides available when you use this book:

- *TOOL Reference Guide*, for information about writing TOOL code
- *A Guide to the iPlanet UDS Workshops*, for information about tasks that you can perform when you interact with the repository, import or export TOOL code, and configure and make application distributions

Organization of This Guide

The following table briefly describes the contents of each chapter:

Chapter	Description
Chapter 1, "Using Fscript"	Explains how to start the Fscript utility, write Fscript scripts, and perform tasks using Fscript commands.
Chapter 2, "Fscript Commands"	Describes each Fscript command.
Appendix A, "Fscript Command Summary"	Provides the syntax and a brief description for each Fscript command.
Appendix B, "Memory and Logger Flags"	Describes the logger and memory options that you can specify with Fscript.
Appendix C, "Commands for OS/390 Transaction Adapter Builder"	Describes the Transaction Adapter Builder Fscript commands for OS/390 that enable iPlanet UDS applications to share data with OS/390-hosted COBOL programs.

Text Conventions

This section provides information about the conventions used in this document.

Format	Description
<i>italics</i>	Italicized text is used to designate a document title, for emphasis, or for a word or phrase being introduced.

Format	Description
monospace	Monospace text represents example code, commands that you enter on the command line, directory, file, or path names, error message text, class names, method names (including all elements in the signature), package names, reserved words, and URLs.
ALL CAPS	Text in all capitals represents environment variables (FORTE_ROOT) or acronyms (UDS, JSP, iMQ). Uppercase text can also represent a constant. Type uppercase text exactly as shown.
Key+Key	Simultaneous keystrokes are joined with a plus sign: Ctrl+A means press both keys simultaneously.
Key-Key	Consecutive keystrokes are joined with a hyphen: Esc-S means press the Esc key, release it, then press the S key.

Syntax Statements

Syntax statements that describe usage of TOOL methods and script commands use the following conventions:

Format	Description
parentheses ()	Parentheses enclose a parameter list.
comma ,	Commas separate items in a parameter list.
vertical bars	Vertical bars indicate a mutually exclusive choice between items. See braces and brackets, below.
<u>underline</u>	Indicates the default value in a parameter list.
brackets[]	Square brackets to indicate optional values in a syntax statement.
braces { }	Braces indicate a required clause. When a list of items separated by vertical bars is enclosed in braces, you must enter one of the items from the list. Do not enter the braces or vertical bars.
ellipsis ...	The item preceding an ellipsis may be repeated one or more times. When a clause in braces is followed by an ellipsis, you can use the clause one or more times. When a clause in brackets is followed by an ellipsis, you can use the clause zero or more times.

Other Documentation Resources

In addition to this guide, there are additional documentation resources, which are listed in the following sections. The documentation for all iPlanet UDS products (including Express, WebEnterprise, and WebEnterprise Designer) can be found on the iPlanet UDS Documentation CD. Be sure to read “[Viewing and Searching PDF Files](#)” on page 18 to learn how to view and search the documentation on the iPlanet UDS Documentation CD.

iPlanet UDS documentation can also be found online at <http://docs.iplanet.com/docs/manuals/uds.html>.

The titles of the iPlanet UDS documentation are listed in the following sections.

iPlanet UDS Documentation

- *A Guide to the iPlanet UDS Workshops*
- *Accessing Databases*
- *Building International Applications*
- *Esript and System Agent Reference Guide*
- *Fscript Reference Guide*
- *Getting Started With iPlanet UDS*
- *Integrating with External Systems*
- *iPlanet UDS Java Interoperability Guide*
- *iPlanet UDS Programming Guide*
- *iPlanet UDS System Installation Guide*
- *iPlanet UDS System Management Guide*
- *Programming with System Agents*
- *TOOL Reference Guide*
- *Using iPlanet UDS for OS/390*

Express Documentation

- *A Guide to Express*
- *Customizing Express Applications*
- *Express Installation Guide*

WebEnterprise and WebEnterprise Designer Documentation

- *A Guide to WebEnterprise*
- *Customizing WebEnterprise Designer Applications*
- *Getting Started with WebEnterprise Designer*
- *WebEnterprise Installation Guide*

Online Help

When you are using an iPlanet UDS development application, press the F1 key or use the Help menu to display online help. The help files are also available at the following location in your iPlanet UDS distribution:

```
FORTE_ROOT/userapp/forte/cln/*.hlp.
```

When you are using a script utility, such as Fscript or Escript, type help from the script shell for a description of all commands, or help *<command>* for help on a specific command.

iPlanet UDS Example Programs

A set of example programs is shipped with the iPlanet UDS product. The examples are located in subdirectories under `$FORTE_ROOT/install/examples`. The files containing the examples have a `.pex` suffix. You can search for TOOL commands or anything of special interest with operating system commands. The `.pex` files are text files, so it is safe to edit them, though you should only change private copies of the files.

Viewing and Searching PDF Files

You can view and search iPlanet UDS documentation PDF files directly from the documentation CD-ROM, store them locally on your computer, or store them on a server for multiuser network access.

NOTE You need Acrobat Reader 4.0+ to view and print the files. Acrobat Reader with Search is recommended and is available as a free download from <http://www.adobe.com>. If you do not use Acrobat Reader with Search, you can only view and print files; you cannot search across the collection of files.

➤ **To copy the documentation to a client or server**

1. Copy the `doc` directory and its contents from the CD-ROM to the client or server hard disk.

You can specify any convenient location for the `doc` directory; the location is not dependent on the iPlanet UDS distribution.

2. Set up a directory structure that keeps the `udsdoc.pdf` and the `uds` directory in the same relative location.

The directory structure must be preserved to use the Acrobat search feature.

NOTE To uninstall the documentation, delete the `doc` directory.

➤ **To view and search the documentation**

1. Open the file `udsdoc.pdf`, located in the `doc` directory.
2. Click the Search button at the bottom of the page or select Edit > Search > Query.

3. Enter the word or text string you are looking for in the Find Results Containing Text field of the Adobe Acrobat Search dialog box, and click Search.

A Search Results window displays the documents that contain the desired text. If more than one document from the collection contains the desired text, they are ranked for relevancy.

NOTE For details on how to expand or limit a search query using wild-card characters and operators, see the Adobe Acrobat Help.

4. Click the document title with the highest relevance (usually the first one in the list or with a solid-filled icon) to display the document.

All occurrences of the word or phrase on a page are highlighted.

5. Click the buttons on the Acrobat Reader toolbar or use shortcut keys to navigate through the search results, as shown in the following table:

Toolbar Button	Keyboard Command
Next Highlight	Ctrl+]]
Previous Highlight	Ctrl+[[
Next Document	Ctrl+Shift+]]

To return to the `udsdoc.pdf` file, click the Homepage bookmark at the top of the bookmarks list.

6. To revisit the query results, click the Results button at the bottom of the `udsdoc.pdf` home page or select Edit > Search > Results.

Using Fscript

This chapter explains how you can use the Fscript utility, including:

- starting and stopping Fscript
- working with parts of applications under development
- working with development repositories
- configuring and making application distributions

This chapter assumes that you are familiar with the standard iPlanet UDS functions provided by the iPlanet UDS Workshops.

About Fscript

The Fscript utility lets you use a command-line interface to perform the same tasks you can perform in the iPlanet UDS workshops. Because of its simple interface, Fscript is available on all clients and servers that are running in the iPlanet UDS installation.

You can easily write *scripts*, files containing executable Fscript commands, that let you automate many iPlanet UDS tasks, such as testing your application or backing up your repositories. Your scripts can be portable across the different platforms supported by iPlanet UDS, and you can include any Fscript commands in your scripts.

Fscript provides a set of commands for performing the same tasks available in the iPlanet UDS Workshops. In Fscript, you can:

- create new projects
- examine project components
- define and modify classes

- test or run application starting with the main projects
- partition and run distributed applications
- define and deploy libraries

This chapter contains general guidelines for working with Fscript commands.

Starting Fscript

You can start the Fscript utility on any node in your iPlanet UDS environment.

► **To start the Fscript utility on Windows NT platforms**

1. Double-click the Fscript Distributed or Fscript Standalone icon.



► **To start the Fscript utility on UNIX, OpenVMS, or Windows NT platform**

1. Type the `fscript` command, as described below.

When the Fscript utility starts, it gives you an “fscript>” prompt.

fscript Command

To start Fscript, enter the following command:

Portable Syntax (All Platforms)

```
fscript [-fs] [-fr repository_name] [-fw workspace_name] [-fcons]
        [-fns name_server_address] [-fnd node_name] [-fnn model_node_name]
        [-fm memory_flags] [-fstinteger] [-fl logger_flags] [-i input_file]
        [-o output_file]
```

OpenVMS Syntax

```
VFORTE FSCRIPT
  [ /STANDALONE ]
  [ /REPOSITORY=repository_name ]
  [ /WORKSPACE=workspace_name ]
  [ /NAMESERVER=name_server_address ]
  [ /FCONS ]
  [ /NODE=node_name ]
  [ /MODEL_NODE=model_node_name ]
  [ /MEMORY=memory_flags ]
  [ /STACK=integer ]
  [ /LOGGER=logger_flags ]
  [ /INPUT=input_file ]
  [ /OUTPUT=output_file ]
```

The following table shows the command line flags for the fscript command.

Table 1-1 Command Line Flags for the Fscript Command

Flag	Description
-fs /STANDALONE	Open Fscript as a stand-alone facility, without connecting to an Environment Manager. If you start Fscript with this flag, you cannot test distributed applications using RunDistrib and you cannot use a central repository as the current repository. To omit this flag, you must define a valid FORTE_NS_ADDRESS or -fns flag and be connected to the network.
-fr <i>repository_name</i> /REPOSITORY= <i>repository_name</i>	Specifies the repository to use for Fscript. See “Specifying a Repository” on page 25 for information about specifying the repository to use with Fscript.
-fw <i>workspace_name</i> /WORKSPACE= <i>workspace_name</i>	Specifies the workspace name to open for Fscript. See “Specifying a Workspace” on page 25 for information about specifying the workspace to use with Fscript.

Table 1-1 Command Line Flags for the Fscript Command (*Continued*)

Flag	Description
<code>-fns name_server_address</code> <code>/NAMESEVER= name_server_address</code>	Specifies the name service address for the environment in which this application will run. This value overrides the value, if any, specified by the <code>FORTE_NS_ADDRESS</code> environment variable. If you want your application to be able to switch to a backup Environment Manager if the primary Environment Manager fails, you can also specify multiple name service addresses, as discussed in <i>iPlanet UDS System Management Guide</i> .
<code>-fcons</code> <code>/FCONS</code>	On UNIX and VMS, the <code>-fcons</code> flag on the <code>fscript</code> command ensures that Fscript will run even if the connection to X cannot be made. Without the <code>-fcons</code> flag, Fscript fails if the connection to X fails.
<code>-fnd node_name</code> <code>/NODE_NAME=node_name</code>	(Clients only) Specifies the node name that identifies the specific client node that is running Fscript. This is only valid on Windows.
<code>-fmn model_node_name</code> <code>/MODEL_NODE=model_name</code>	Specifies the name of the model node for the client that is running Fscript. See “Specifying Model Node Names” on page 26 for more information about model node name.
<code>-fm memory_flags</code> <code>/MEMORY=memory_flags</code>	Specifies the memory manager settings to use for this Fscript session. See Appendix B, “Memory and Logger Flags” for information.
<code>-fst integer</code> <code>/STACK=integer</code>	Specifies the thread stack size in bytes for iPlanet UDS and POSIX threads. This specification overrides default stack size allocation. See <i>iPlanet UDS System Management Guide</i> for information.
<code>-fl logger_flags</code> <code>/LOGGER=logger_flags</code>	Specifies the starting log tracing flags for this Fscript session. See Appendix B, “Memory and Logger Flags” for information.
<code>-i input_file</code> <code>/INPUT=input_file</code>	Specifies an alternate input file. The default is standard input.
<code>-o output_file</code> <code>/OUTPUT=output_file</code>	Specifies an alternate output file. The default is standard output.

The following examples demonstrate the use of commands to start Fscript:

- Start Fscript in standalone mode, with a local repository named Myrepos and a workspace named jimmy:

```
fscript -fs -fr bt:Myrepos -fw jimmy
```

- Start Fscript in distributed mode, with a workspace named Sammy, and memory flags setting minimum memory to 2000 and maximum memory to 4000.

```
fscript -fw Sammy -fm "(n:2000,x:4000)"
```

- Start Fscript in standalone mode with logger flags set to log all trace and Environment Manager messages to standard output:

```
fscript -fs -fl "%stdout(trc:* em:*)"
```

Specifying a Repository

-fr flag If you do not specify the `-fr` flag, you must use the `SetRepos` command in Fscript before performing an `Open` command. If you specify neither the `-fr` flag or the `SetRepos` command, Fscript will connect to the central development shared repository.

You can either specify the name of a central repository server, a shadow repository, or a local repository.

To use a central repository, specify the name of the central repository server, as shown in the following example:

```
fscript -fr CentralRepository -fw MyWorkspace
```

To use a shadow repository or a local repository, you need to specify the letters "bt:" before the path and name of the repository, as shown in the following example:

```
fscript -fr bt:c:\repos\LocalRepository -fw MyWorkspace
```

Specifying a Workspace

-fw flag If you do not specify the `-fw` flag, you must use the `Fscript SetWorkspace` command as your first command. If you are using a private repository, you can use the workspace name `FirstWorkspace`.

After you start Fscript, you must use the `Open` command to actually open your workspace.

Specifying Model Node Names

-fnn flags On Windows, you can specify `-fnn` flags when you start an Fscript session. If the `-fnn` flag is specified (or if the `FORTE_MODELNODE` environment variable is set in the Windows `forte.ini` file), the client is assumed to be a model node, and the model node name will be looked up in the environment repository to identify information about the node for use in partitioning and running applications. If the `fscript` command does not specify the `-fnn` flag, then the node information associated with the node is read from the environment repository.

Running A Script File

-i flag You can run an Fscript script file as soon as you start Fscript by specifying the name of the script on the `-i` flag of the `fscript` command.

For example, you might want to define an Fscript script in a file called `Backup.scr` that backs up a repository, then create an icon for it on your Windows desktop. You could define an icon to invoke the following command:

```
fscript -i Backup.scr
```

If you want Fscript to start, run your script, then automatically exit Fscript, you must include a `Quit` or `Exit` command as the last command in the script.

Exiting Fscript

To leave Fscript, enter the `Quit` or `Exit` command in the Fscript window. For information about the `Quit` command, see [“Quit” on page 113](#). For information about the `Exit` command, see [“Exit” on page 71](#).

Working with Objects in Fscript

In Fscript, different commands work with different objects. A *current* object is the last object that was set or found using an Fscript `Set...` or `Find...` command for a certain type of object. Many Fscript commands operate a current object. For example, the `ShowPlan` command works with the current plan, and the `SetPartRepCount` command works with the current partition. You use the various `Set...` and `Find...` commands to designate the current setting for each object type, and use the various `Show...` commands to list the properties of those objects.

The following table lists the objects that you can use as current objects for Fscript commands:

Table 1-2 Objects You Can Use As Current Objects for Fscript Commands

Object	Description	Command to Set Current Object
application	An application is the <i>current application</i> when the current project is this application's <i>main project</i> . The main project is the project that contains the code that starts the application.	FindPlan
application component	An <i>application component</i> can be a partition or a library project.	FindAppComp
configuration	The <i>current configuration</i> is either an application configuration or a library configuration. A <i>library configuration</i> is the assignment of projects that will be installed as libraries on nodes of the current environment. An <i>application configuration</i> is the assignment of partitions for the current application on nodes of the current environment.	FindPlan FindEnv or FindActEnv Partition
environment	An <i>environment</i> is the definition for the distributed system on which you run a distributed iPlanet UDS application.	FindEnv or FindActEnv
library project	A <i>library project</i> is a project that is assigned to a node in a library configuration. This project will be installed as a library.	FindAppComp
partition	A <i>partition</i> is a portion of the application that runs on a client or a server, which is assigned to a node in the environment.	FindAppComp
plan	A <i>plan</i> can be a project, a business model, or an application model.	FindPlan
project	A <i>project</i> is the definition for an application or shared library.	FindPlan
repository	A <i>repository</i> is a database that stores the plans you create with iPlanet UDS.	SetRepos
workspace	A <i>workspace</i> is your view of the repository, where you can work on code stored in the repository.	SetWorkspace

Using File Names in Fscript Commands

A number of Fscript commands use file names as arguments. Fscript has several features that are useful for setting these file names.

Working with Directories

Fscript provides two commands, `SetPath` and `AddPath`, which let you set a path of directories in which to search for referenced files. These commands let you keep sets of commonly used Fscript command scripts in convenient directory structures so you do not have to constantly re-specify path names. The `ShowPath` command lets you show the current search path, while the `WhichFile` command searches through the directories in the current directory search path to locate the first directory in which the specified file exists.

File Naming Conventions

You can use either local file naming or the iPlanet UDS portable name format to specify directory and file names.

Local file naming means that you can specify file names using the format native to the system on which you invoke an Fscript command. Local file naming is the default, but you can explicitly select it using the `UseLocal` command. The following example shows how you could specify a file on different platforms:

Operating System	Specifying the working.pex file
UNIX	/dev/mammoth/working.pex
VMS	dev:[mammoth]working.pex
Windows	c:\dev\mammoth\working.pex

You can also have Fscript interpret all file names as *portable* name format by invoking the `UsePortable` command. The portable format uses a UNIX-style syntax to specify directory paths. Also, you should keep file name lengths down to an 8 character header, an optional dot (.), and a maximum of a 3 character trailer to ensure portability across all systems. You should not use case as a means of differentiating file names.

Referencing Directory Paths using Environment Variables

You can use environment variables to specify directory paths in Fscript commands.

If you define your environment variables using local file naming, you can use the \$ expansion option to reference directory paths in your Fscript commands. Any time you need to reference a directory path contained in an iPlanet UDS environment variable, you can type the name of the environment variable, surrounded by braces, and preceded by a dollar sign.

For example, suppose you have defined PEXDIR as an environment variable containing a directory path using the appropriate local file naming syntax shown above. You can invoke the `ImportPlan` command to import the contents of the `working.pex` file using the following syntax for Windows:

```
fscript> ImportPlan ${PEXDIR}\working.pex
```

When using portable file names, you can use the special character % in place of the \$ for environment variable expansion. This expands the environment variable name that was specified in the braces. And it also takes the directory or file name that has been specified in local operating system format and converts it to a valid portable name.

For example, although the PEXDIR environment variable is defined in local operating system format, you can still invoke the following commands on any system:

```
fscript> UsePortable
fscript> ImportPlan %PEXDIR/working.pex
```

Fscript Commands Listed By Task

This section contains lists of Fscript commands, organized by tasks you can perform using Fscript. These tables contain a list of Fscript commands associated with each task; not all commands listed with the task are required to complete the task.

Working with Repositories

The following table contains commands you can use to work with an iPlanet UDS repository.

Table 1-3 Commands to Work With an iPlanet UDS Repository

Fscript commands	Description	See...
<code>AttachToCentral</code>	Attach the current shadow repository to the central repository.	page 51
<code>BackupRepos</code>	Backup the current repository to another directory.	page 52
<code>DetachFromCentral</code>	Detach a shadow repository from the current central repository, reserving the current workspace.	page 64
<code>ExportWorkspace</code>	Writes the definition of all plans in the current workspace to a text file.	page 76
<code>ForceWorkspaceUnreserved</code>	Forces a workspace to become unreserved.	page 79
<code>ListPublicPlans</code>	List the publicly-available plans in the current repository.	page 94
<code>ListWorkspaces</code>	List the workspaces in the current repository.	page 97
<code>NewWorkspace</code>	Create a new workspace in the current repository.	page 108
<code>Open</code>	Open the workspace specified on the last <code>SetWorkspace</code> command.	page 109
<code>RemovePublicPlan</code>	Remove a publicly-available plan completely from the current repository.	page 117
<code>RemoveWorkspace</code>	Remove a workspace from the current repository.	page 118
<code>SetRepos</code>	Set the name of the current repository for the next <code>Open</code> command.	page 140
<code>SetWorkspace</code>	Set the name of the current workspace for the next <code>Open</code> command.	page 144
<code>ShowCompHistory</code>	Show the integration history of a component, or set of matching components in the current repository.	page 147

Table 1-3 Commands to Work With an iPlanet UDS Repository (*Continued*)

Fscript commands	Description	See...
ShowIntegrations	Show information about integrations of workspaces in the current repository.	page 149
ShowIntegrations	Show information about the integrations of workspaces in the current repository.	page 149
ShowLockedWorkspaces	Show a list of workspaces that have locks on them in the current repository, and show the type of lock.	page 150
ShowReposInfo	Show physical information about the current repository.	page 152
UnlockWorkspace	Unlock a workspace in the current repository.	page 160

Working with the Workspaces

The following table contains commands you can use to work with an iPlanet UDS workspace.

Table 1-4 Commands to Work With an iPlanet UDS Workspace

Fscript commands	Description	See...
Close	Close the current open workspace.	page 58
Commit	Commit changes in the current workspace to the central repository.	page 59
CompileWorkspace	Compiles all plans in the current workspace.	page 62
ExcludePlan	Exclude a plan from the current workspace, which removes it completely if it has never been integrated.	page 68
ExportWorkspace	Writes the definition of all plans in the current workspace to a text file.	page 76
ForceWorkspaceUnreserved	Forces a workspace to become unreserved.	page 79
ImportWorkspace	Import one or more plans from a file and merge the changes into the plans in a workspace.	page 84

Table 1-4 Commands to Work With an iPlanet UDS Workspace (*Continued*)

Fscript commands	Description	See...
<code>IncludePublicPlan</code>	Include a publicly-available plan in the current workspace.	page 86
<code>IntegrateWorkspace</code>	Integrate the changes in the current workspace into the shared repository.	page 87
<code>ListEnvs</code>	List the environments in the current workspace.	page 91
<code>ListPlans</code>	List the plans in the current workspace.	page 93
<code>ListPublicPlans</code>	List the publicly-available plans in the current repository.	page 94
<code>ListWorkspaces</code>	List the workspaces in the current repository.	page 97
<code>NewWorkspace</code>	Create a new workspace in the current repository.	page 108
<code>Open</code>	Open the workspace specified on the last <code>SetWorkspace</code> command.	page 109
<code>RemoveWorkspace</code>	Remove a workspace from the current repository.	page 118
<code>Save</code>	Save changes in the current workspace to the shadow repository.	page 124
<code>SetPassword</code>	Set the password for the current workspace.	page 134
<code>SetRepos</code>	Set the name of the current repository for the next <code>Open</code> command.	page 140
<code>SetWorkspace</code>	Set the name of the current workspace for the next <code>Open</code> command.	page 144
<code>ShowIntegrations</code>	Show information about the integrations of workspaces in the current repository.	page 149
<code>ShowLockedWorkspaces</code>	Show a list of workspaces that have locks on them in the current repository, and show the type of lock.	page 150
<code>ShowWorkspace</code>	Show the name of the current workspace and repository.	page 153
<code>UnlockWorkspace</code>	Unlock a workspace in the current repository.	page 160

Table 1-4 Commands to Work With an iPlanet UDS Workspace (*Continued*)

Fscript commands	Description	See...
UpdateWorkspace	Update the current workspace with any changes in the system baseline since the last update.	page 161

Working with Any Plans

The following table contains commands you can use to work with any kind of iPlanet UDS plan, including a project, an application model, or a business model.

Table 1-5 Commands to Work With Any Kind of iPlanet UDS Plan

Fscript command	Description	See...
AddSupplierPlan	Include a plan as a supplier plan to the current plan.	page 49
CompilePlan	Compile all out-of-date components in a plan.	page 61
ExportPlan	Export all components in a plan to a file.	page 73
FindPlan	Set the current plan.	page 78
ImportPlan	Import the plan from a file and merge the changes into a plan.	page 82
ListPlans	List the plans in the current workspace.	page 93
NewPlan	Create a new plan in the current workspace.	page 105
RemoveSupplierPlan	Remove a supplier plan from the current plan.	page 117
ShowPlan	Display information about the current plan.	page 151
ShowPlanHistory	Print information about past integrations of the current plan.	page 152

Working with Projects and Project Components

To define and modify projects in Fscript, you provide project definition information in one or more text files, then import each text file. Importing the file compiles the project definition information as a project in the repository.

For the full syntax of the statements that you can include in project definition files, see the *TOOL Reference Guide*. For information about compiling the project definition information using the Fscript `CompilePlan` command, see [“CompilePlan” on page 61](#).

The following table contains commands you can use to work with iPlanet UDS projects, and project components.

Table 1-6 Commands to Work With iPlanet UDS Projects and Project Components

Fscript command	Description	See...
<code>AddSupplierPlan</code>	Include a project as a supplier project to the current project.	page 49
<code>BranchAllComps</code>	Branch all components in the current project to the workspace.	page 52
<code>BranchComp</code>	Branch a read-only or checked out component in the workspace.	page 53
<code>CheckoutAllComps</code>	Check out all components in the current project to the workspace.	page 55
<code>CheckoutComp</code>	Check out a read-only or branched component in the workspace.	page 55
<code>Compile</code>	Import and compile a file containing project component definitions.	page 59
<code>ExportClass</code>	Export the named class to a text file.	page 72
<code>ExportWindowClass</code>	Export a <code>UserWindow</code> subclass to two files, one for the class and one for the window definition.	page 75
<code>ImportClass</code>	Import and compile a file containing project component definitions.	page 81
<code>IncreaseCompatLevel</code>	Increase the compatibility level for a project.	page 87
<code>ListComps</code>	List components in the workspace with branch and checkout status.	page 90
<code>NewPlan</code>	Create a new plan in the current workspace.	page 105
<code>NewProj</code>	Create a new project in the current workspace.	page 107

Table 1-6 Commands to Work With iPlanet UDS Projects and Project Components

Fscript command	Description	See...
RemoveComp	Remove the named component from the current project.	page 115
RemoveSupplierPlan	Remove a supplier project from the current project.	page 117
RenameComp	Rename a component in the current project.	page 119
RevertProj	Undo all changes made to a project since last integration.	page 120
ScmExportComponent	Export the component definition for the specified component.	page 124
ScmExportProject	Export the project definition for the current project.	page 125
ShowCompHistory	Show the integration history of a component, or set of matching components.	page 147
UndoBranchComp	Undo the branch for a component, and revert to previous state.	page 157
UndoCheckoutComp	Undo the checkout for a component, and revert to previous state.	page 158
UndoRemoveComp	Undo the effects of a RemoveComp on a component and revert to previous state.	page 159

Working with Express Components

The following table contains commands you can use to work with Express application models and business models. Other commands that can be used with application models and business models are listed in *“Working with Any Plans” on page 33*.

For general information about working with Express components, see *A Guide to Express*.

Table 1-7 Commands to Work With Express Application Models and Business Models

Fscript command	Description	See...
BranchPlan	Branch the current business model or application model.	page 53
CheckoutPlan	Check out the current business model or application model.	page 56
CompilePlan	Generate application code from the business or application model that is the current plan	page 61
ExportTemplate	Export the current project as an Express template file.	page 74
UndoBranchPlan	Undo the branch for the current business model or application model, and revert to its previous state.	page 158
UndoCheckoutPlan	Undo the checkout for the current business model or application model, and revert to its previous state.	page 159
ValidatePlan	Check the business model or application model for errors without generating application code.	page 165

Partitioning, Testing, and Distributing Applications

The following table contains commands you can use to partition, test, and distribute an application.

Table 1-8 Commands to Partition, Test, and Distribute an Application

Fscript commands	Description	See...
FindPlan	Set the current plan.	page 78
FindEnv	Set the current environment.	page 77
FindActEnv	Set the current environment to the active environment.	page 76
ShowEnv	Show information about the current environment.	page 148
SetPrefNode	Set the preferred server node for subsequent partitioning of an application in an environment.	page 137

Table 1-8 Commands to Partition, Test, and Distribute an Application (*Continued*)

Fscript commands	Description	See...
SetProjType	Set project as user application (1), server only (2), or library (3).	page 139
SetProjRestricted	Set the restricted property for a project.	page 137
SetServiceEOSInfo	Define what external object service a service object is available to and its export name.	page 142
Partition	Partition using the current project and the current environment.	page 111
FindPlan	Set the current plan.	page 78
FindActEnv	Set the current environment to the active environment.	page 76
FindEnv	Set the current environment.	page 77
ShowApp	Show information about the current application configuration.	page 146
FindPlan	Set the current plan.	page 78
ShowPlan	Display information about the current plan.	page 151
RemoveConf	Remove a configuration for the current project.	page 114
NewPart	Create a new partition, with the specified service object.	page 105
FindAppComp	Set the current component for the current configuration.	page 77
AssignAppComp	Assign a partition or a library to a specific node.	page 50
UnassignAppComp	Remove the assignment of a partition or library on a node.	page 156
MoveServiceToPart	Move a service object in the current application configuration to another partition.	page 103
SetPartRepCount	Set the autostart replication count for a load balanced or failover server on a node.	page 133
SetAppletFlag	Defines the client application associated with a logical client partition as an applet.	page 129
ListServiceApps	List installed applications containing the same referenced service object.	page 95
UseServiceFromApp	Reference the named service object from the named application.	page 164

Table 1-8 Commands to Partition, Test, and Distribute an Application (*Continued*)

Fscript commands	Description	See...
EnableAppComp	Enable autostart for a partition on a specific node.	page 67
SetPartArgs	Set the startup arguments for a partition on a specific node.	page 131
DisableAppComp	Disable autostart for a partition on a specific node.	page 66
SetAppCompCompiled	Define a partition or library as compiled on a specific node.	page 127
SetProjStart	Set the starting class and method for the current project.	page 138
Run	Run the application in test mode from the starting class and method.	page 120
RunDistrib	Run the application in distributed mode for the current configuration.	page 122
RunFile	Run the fragment of TOOL code that is in the file.	page 123
StopRemoteParts	Stop remote partitions which have been launched by the RunDistrib command.	page 154
ListTestApps	List applications which are currently being partitioned for use in shared client testing.	page 96
TestApp	Start a wait for testing the client portion of a remotely started application.	page 155
MakeAppDistrib	Create a distribution for the current configuration.	page 98

Configuration Locks

In Fscript, when you partition an application or library project or modify a configuration, iPlanet UDS registers the configuration lock for the environment, which indicates that someone is configuring an application or library project in this environment. This lock does two things:

- It allows concurrent users of the `TestClient` utility or the `TestApp` command in Fscript to participate in concurrent testing of the application under configuration.
- It prevents any concurrent users of the Environment Console or Escript from making changes to the environment.

The following commands register configuration locks:

Table 1-9 Commands That Register Configuration Locks

Fscript command	See:	Fscript command	See:
AssignAppComp	page 50	RunDistrib	page 122
DisableAppComp	page 66	SetPartArgs	page 131
EnableAppComp	page 67	SetPartRepCount	page 133
FindAppComp	page 77	SetPrefNode	page 137
MakeAppDistrib	page 98	ShowApp	page 146
MoveServiceToPart	page 103	UnassignAppComp	page 156
NewPart	page 105	UseServiceFromApp	page 164
Partition	page 111		

The configuration lock for the current environment and application remains in place until you execute a command that indicates you are no longer interested in this configuration.

The commands that release the configuration lock are:

Table 1-10 Commands That Release the Configuration Lock

Fscript command	See:	Fscript command	See:
Close	page 58	FindPlan	page 78
Exit	page 71	Quit	page 113
FindActEnv	page 76	StopRemoteParts	page 154
FindEnv	page 77		

Building Libraries

The following table contains commands you can use to build libraries.

Table 1-11 Commands to Build Libraries

Fscript commands	Description	See...
FindPlan	Set the current plan.	page 78
FindEnv	Set the current environment.	page 77
FindActEnv	Set the current environment to the active environment.	page 76
ShowEnv	Show information about the current environment.	page 148
SetPrefNode	Set the preferred server node for subsequent partitioning of a library in an environment.	page 137
SetProjType	Set the project as user application (1), server only (2), or library (3).	page 139
SetProjRestricted	Set the restricted property for a project.	page 137
Partition	Partition using the current project and the current environment.	page 111
AddProjToLib	Add a project to the current library configuration.	page 48
RemoveProjFromLib	Remove a project from the current library configuration.	page 116
FindAppComp	Set the current component for the current configuration.	page 77
AssignAppComp	Assign a partition or a library to a specific node.	page 50
UnassignAppComp	Remove the assignment of a partition or library on a node.	page 156
RemoveConf	Remove a configuration for the current project.	page 114
SetAppCompCompiled	Define a partition or library as compiled on a specific node.	page 127
MakeAppDistrib	Create a distribution for the current configuration.	page 98

Writing Scripts

You can easily create and maintain scripts of Fscript commands for background or batch execution. Also, because of its simple interface, Fscript is available on all clients and servers that are running in the iPlanet UDS installation, so your scripts can be portable across the different platforms supported by iPlanet UDS. You can include any Fscript commands in your scripts.

CAUTION To include comments in your scripts, start the line containing the comment with the # character, as shown in the following example.

```
# Find the current active environment.
FindActEnv
```

The following table contains commands you can use within scripts, in addition to the other Fscript commands.

Table 1-12 Commands You Can Use Within Scripts

Fscript commands	Description	See...
CommentOff	Turn off recording of comments to standard output.	page 58
CommentOn	Turn on recording of comments to standard output.	page 59
Delay	Delay the current task for the specified number of milliseconds.	page 63
ExecCmd	Execute an operating system command.	page 69
ExitIfNoEnvMgr	Leave Fscript as soon as no environment manager is running.	page 71
Include	Execute a set of Fscript commands from another file.	page 85
Repeat	Repeats the next command the specified number of times.	page 119
Script	Capture Fscript commands into a file.	page 126
Shell	Starts a session in which operating system commands can be entered.	page 145
ShowExpansions	Enable or disable the printing of alias expansions to standard output when they occur.	page 149

Table 1-12 Commands You Can Use Within Scripts (*Continued*)

Fscript commands	Description	See...
SilentOff	Turn off the printing of exceptions to standard output.	page 153
SilentOn	Turn on the printing of exceptions to standard input.	page 153
Step	Step through commands in a file started with the Include command.	page 154

Working with Fscript

The following table contains commands you can use to work with Fscript itself.

Table 1-13 Commands You Can Use to Work With Fscript Itself

Fscript commands	Description	See...
AddAlias	Define an alias for an Fscript command and its arguments.	page 46
Exit	Leave Fscript.	page 71
ExitStatus	Set a value to be returned to the routine that started Fscript.	page 71
Help	List information about using Fscript commands.	page 80
ModLogger	Add or remove trace flags.	page 102
Quit	Leave Fscript.	page 113
RemoveAlias	Remove an alias.	page 114
SetOutFile	Set the file where output is printed.	page 131
ShowAlias	Display one or all defined aliases with their expansions.	page 146
UseLocal	Set Fscript to recognize file name input in local name format.	page 162
UsePortable	Set Fscript to recognize file name input in portable format.	page 163

Working with Files and the Operating System

The following table contains commands you can use to work with the operating system and files stored in the operating system.

Table 1-14 Commands you Can Use to Work With the Operating System

Fscript commands	Description	See...
UseLocal	Set Fscript to recognize file name input in local name format.	page 162
UsePortable	Set Fscript to recognize file name input in portable format.	page 163
Directory	List files in a directory.	page 65
ListFiles	List files in a directory.	page 92
Ls	List files in a directory.	page 97
MkDir	Create a directory in the operating system.	page 102
SearchFile	Locate text in a file.	page 126
ListFile	List the contents of a file in output.	page 92
Vi	Start an editor so that you can edit the specified file.	page 165
ReadIntoFile	Read lines of data following this command and write the data to the specified file.	page 113
Chmod	Change the permissions of the specified file.	page 57
CopyFile	Copy a file.	page 62
Cp	Copy a file.	page 63
Duplicate	Copy a file.	page 67
Mv	Rename a file.	page 104
RemoveFile	Remove the specified file.	page 116
Rm	Remove the specified file.	page 120
SetDefault	Change the current working directory to the specified directory.	page 130
Cd	Change the current working directory to the specified directory.	page 54
Pwd	Print the current working directory.	page 112
SetPath	Set the directory path for Fscript commands to seek files.	page 135
SetSearchPath	Set the directory path for Fscript commands to seek files.	page 141

Table 1-14 Commands you Can Use to Work With the Operating System (*Continued*)

Fscript commands	Description	See...
AddPath	Add a new directory path to the directory path Fscript commands use to seek files. (See also SetPath).	page 46
ShowPath	Shows the directory paths Fscript commands use to seek files. (See also SetPath).	page 151
WhichFile	Find a file in the current directory search path.	page 166
ExecCmd	Execute an operating system command.	page 69
Shell	Starts a session in which operating system commands can be invoked.	page 145
SetEnv	Set an environment variable to the specified value.	page 130
PrintEnv	Print the current value of an environment variable.	page 112

Managing the Development Environment

The following table contains commands you can use to manage your development environment.

Table 1-15 Commands to Manage Your Development Environment

Fscript commands	Description	See...
CollectMem	Run the memory garbage collector.	page 58
MemStats	Print memory statistics to standard output.	page 100

Fscript Commands

This chapter describes, in alphabetical order, the commands that let you start and quit Fscript, as well as the commands that let you work with:

- workspaces
- plans
- project components
- configurations, partitions, and libraries

This chapter also describes commands that:

- write scripts to automate tasks
- work with files in your operating system
- test distributed applications
- perform repository maintenance

This chapter assumes that you are familiar with the standard iPlanet UDS functions provided by the iPlanet UDS Workshops, as described in *A Guide to the iPlanet UDS Workshops*.

AddAlias

The `AddAlias` command adds an alias expansion mapping *alias_name* to *command_string*. An *alias* is a synonym you can define for an Fscript command and its arguments.

```
AddAlias alias_name command_string
```

Argument	Description
<i>alias_name</i>	A string without blanks that represents the name of the alias.
<i>command_string</i>	A string containing a command and its arguments, if arguments are required for the command. If this string contains blanks, surround the string with double quotation marks.

Aliases exists only for the duration of the current Fscript session.

The following example shows how you can create an alias using the `AddAlias` command:

```
AddAlias FProjs "ListPublicPlans f*"
```

This example creates an alias called `FProjs` that invokes the command `"ListPublicPlans f*"`.

AddPath

The `AddPath` command adds the specified directories to the current search path used by any of the commands that take a file name as an argument.

```
AddPath directory-name [ ;directory-name . . . ]
```

Argument	Description
<i>directory-name</i>	The name of a directory in which to look for files that are specified without a path.

Most of the commands that have input file arguments allow you to specify the name of the input file, without a full directory specification. In this case, they use the directory search path, as defined by the `SetPath` and `AddPath` commands, to find the file. The directory search path provides a set of directories that are checked in turn, until a file matching the unexpanded name is found.

The `AddPath` command is used to add one or more directories to the end of the current list of directories in the search path. You can use the `SetPath` command to reset the entire directory search path list.

By default, the directory search path only includes the current working directory. The current working directory is always considered the last directory in the directory search path, even after you give the `SetPath` command. If you want the current working directory to be searched first, you can specify the current working directory first in the list of directories for the `SetPath` command.

Specify each *directory_name* as a full directory path name. By default, directories should be specified in the local operating system directory format. However, if you have previously invoked the `UsePortable` command, the *directory_name* should be specified in iPlanet UDS portable format, a UNIX-style directory format. To specify more than one directory, separate the directory names with semicolons.

You can embed environment variable names within the directory names, by using the following syntax:

```
${environment_variable_name}
```

The dollar sign and braces indicate that the name inside the braces is an environment variable, and the entire specification is replaced with the current setting of the environment variable.

You can also use the following syntax to expand the environment variable name and convert it to a portable file format as well:

```
%{environment_variable_name}
```

The percent sign and braces indicate that the name inside the braces is an environment variable, and the entire specification is replaced with the current setting of the environment variable. This is useful if you have invoked the `UsePortable` command, but have directories specified in environment variables in local format, which you need to convert to portable format.

Examples of the AddPath command are:

```
Fscript> AddPath /mydisk/mydir;${ENV_VAR}/subdir
Fscript> AddPath c:\mydir;${ENV_VAR}\subdir
Fscript> AddPath "Mac HD:Apps:TempFolder";${ENV_VAR}:Sub
Fscript> AddPath $dka0:[path];${ENV_VAR}:[otherdisk.otherdir]
Fscript> UsePortable
Fscript> AddPath %{\FORTE_ROOT}/install/examples
```

AddProjToLib

The AddProjToLib command adds the specified project to the current library configuration.

```
AddProjToLib project_name
```

Argument	Description
<i>project_name</i>	The name of the project to include in the library configuration. This name must be the name of a project included in your workspace.

When you use the AddProjToLib command, the current configuration must be a library configuration; otherwise, this command will fail.

After you add projects to the library configuration, you need to repartition this library configuration to assign the project to nodes in the library configuration.

► To assign an added project to nodes in the library configuration

1. Repartition the library configuration using the Partition command. The added project is assigned to all the nodes in the library configuration where the other projects are assigned.
2. Use UnassignAppComp to remove all library projects from any node where you do *not* want the project installed as a library. When you remove a project from a node, all the projects in this library configuration are removed from the node.

However, when you add a restricted project to a library configuration using the AddProjToLib command, the project is assigned only to nodes where the required resources are installed. When you remove the project from the assigned node using the UnassignAppComp command, you remove just the restricted project.

Before you can add projects to a library configuration, you must have the library configuration as the current configuration. You can either use an existing library configuration, or you can create a new library configuration.

➤ **To use an existing library configuration**

1. Use the `FindEnv` or `FindActEnv` command to set the current environment.
2. Use the `FindPlan` command to set the main project for the library configuration as the current project.

The current configuration is now the library configuration for the current project and the current environment.

➤ **To create a new library configuration**

1. Use the `FindPlan` command to set the main project for your library configuration as the current project.
2. Use the `SetProjType` command with the `type_flag` value of 3 to specify that the current project will be installed as a library.
3. Use the `FindEnv` or `FindActEnv` command to set the current environment.
4. Use the `Partition` command to generate the configuration for the new library configuration.

You can now add or remove projects from the current library configuration using the `AssignAppComp` and `UnassignAppComp` commands.

AddSupplierPlan

The `AddSupplierPlan` command adds a supplier plan to the list of supplier plans for the current plan. A supplier plan can be a project, an application model, or a business model.

```
AddSupplierPlan plan_name
```

Argument	Description
<i>plan_name</i>	The name of the plan to include as a supplier plan. This name must be the name of a plan included in your workspace.

After you designate a supplier plan to a plan, you can reference any of the supplier plan components in your plan.

The order in which supplier plans are added to a TOOL plan does not matter. If there are name conflicts between components of several supplier plans (that is, two components have the same name), you will get compilation errors when you reference the conflicting component. You can use fully qualified TOOL names to specify exactly which plan component you want. See the *TOOL Reference Guide* for more information.

AssignAppComp

The `AssignAppComp` command assigns the specified application component—a partition or a library project—in the current configuration for eventual installation on the specified node.

```
AssignAppComp node_name [component_name]
```

Argument	Description
<i>node_name</i>	The name of the node where the component is to be assigned for installation.
<i>component_name</i>	The optional name of the application component which is to be assigned to the node.

The *node_name* must be a valid node defined in the environment. This node must have all of the external resource managers, communications protocols, and restricted projects needed to support the partition or library project.

The optional *component_name* is the name of the application component to be assigned to the node. An application component can be a partition or a library project. You can specify the unique trailer portion of the name only, such as “client”, to identify the application component. If no *component_name* is given, then the current application component is assigned. You can use the `FindAppComp` command to designate a current application component.

Use AssignAppComp to modify an application configuration When an application is partitioned, each partition of the application is designated for future installation and execution on one or more nodes in the environment, based on matching the needed properties of the partition and the actual properties of each node. You can use the `AssignAppComp` command to designate additional nodes for future installation of a partition. When you use the `MakeAppDistrib` command for this configuration for the project, the distribution provides support for installing the partition on the newly designated node.

If a partition is assigned to more than one node and it is not a replicated partition, the partition will automatically start on only one of the assigned nodes. The `EnableAppComp` command designates which node is to be used for automatically starting the partition, once installed. However, by assigning the partition for installation on more than one node, you can provide manual failover for a partition by starting other instances of the partition using Environment Console or Escript. For information about starting partitions manually, see *iPlanet UDS System Management Guide*.

AttachToCentral

The `AttachToCentral` command attaches the currently-opened, detached workspace to the central repository.

```
AttachToCentral
```

Use the `AttachToCentral` command only if you are working in a shadow repository that has been detached from the central repository with the `DetachFromCentral` command. You must be running in distributed mode (no `-fs` flag) when you invoke the `AttachToCentral` command to reestablish communication with the central repository. You also must commit any outstanding changes to the detached shadow repository before giving the `AttachToCentral` command.

All changes made in the workspace since the workspace was detached are transferred to the central repository and committed. If these changes are significant, the `AttachToCentral` command can take some time to complete execution.

When you are reattached to the central repository, you can invoke any of the commands that are not allowed while the shadow repository is detached, such as `CheckoutComp` and `UpdateWorkspace`.

Because all changes in a workspace are saved in the central repository after an `AttachToCentral` command, you should invoke this command from time to time as a safe backup procedure, and then immediately reinvoke the `DetachFromCentral` command to run as a detached shadow repository.

BackupRepos

The `BackupRepos` command backs up the current local or detached shadow repository to another directory.

```
BackupRepos directory_name
```

Argument	Description
<i>directory_name</i>	The name of a directory where the backed-up copy of the repository is placed.

To use the `BackupRepos` command, the current repository must be a local repository or a detached shadow repository. Repositories are backed up as B-tree repositories.

By default, the *directory_name* should be specified in local operating system format. However, if you have previously invoked the `UsePortable` command, the *directory_name* should be specified in portable file name format. You can embed special syntax in the *directory_name* to have environment variable expansion performed on the specified name. See [“SetPath” on page 135](#) for more details.

BranchAllComps

The `BranchAllComps` command branches all read-only components in the current project.

```
BranchAllComps
```

The `BranchAllComps` command branches every component in the current project that is not already checked out or branched. Components that are checked out remain checked out. This command is very useful if you need to perform a command that might change any of the components in the project, such as `ImportPlan`.

For more information about branching, see [“BranchComp” on page 53](#).

BranchComp

The `BranchComp` command branches a read-only or checked-out component in the current project in the current workspace.

`BranchComp` *component_name*

Argument	Description
<i>component_name</i>	The name of a component in the current project to branch.

Branching a component gives you write access to a copy of the component, and you can modify this copy in the workspace. However, the changes to branched components cannot be integrated back into the system baseline in the repository. The `BranchComp` command is primarily used to test out changes while someone else has the component checked out.

To obtain the exclusive write lock on the component in the repository, you must use the `CheckOutComp` command.

You can use the `BranchComp` command on a component that you have already checked out to your workspace. However, when you do, your workspace no longer has the checkout lock, and the component is available for other workspaces to check out. iPlanet UDS does not integrate the changes you made to the component when you had it checked out. These changes are kept in the branched copy of this component in your workspace.

You can invoke the `BranchComp` command from a shadow repository even if you are detached from the central repository.

BranchPlan

The `BranchPlan` command branches the current business model or application model in the current workspace. This command cannot branch projects; to branch a component of a project, use the `BranchComp` command.

`BranchPlan`

Branching a plan gives you write access to a copy of the plan, and you can modify this copy in the workspace. However, the changes to branched plans cannot be integrated back into the system baseline in the repository. The `BranchPlan` command is primarily used to test out changes while someone else has the plan checked out.

To obtain the exclusive write lock on the plan in the repository, you must use the `CheckOutPlan` command.

You can use the `BranchPlan` command on a plan that you have already checked out to your workspace. However, when you do, your workspace no longer has the checkout lock, and the plan is available for other workspaces to check out. iPlanet UDS does not integrate the changes you made to the plan when you had it checked out. These changes are kept in the branched copy of this plan in your workspace.

You can invoke the `BranchPlan` command from a shadow repository even if you are detached from the central repository.

Cd

The `Cd` command calls the operating system to change the current working directory.

```
cd directory_name
```

Argument	Description
<i>directory_name</i>	The name of a directory to make the new working directory.

By default, the *directory_name* should be specified in local operating system format. However, if you have previously invoked the `UsePortable` command, the *directory_name* should be specified in portable file name format. You can embed special syntax in the *directory_name* to have environment variable expansion performed on the specified name. See [“SetPath” on page 135](#) for more details.

The `Cd` command and the `SetDefault` command are synonyms.

CheckoutAllComps

The `CheckoutAllComps` command checks out all components in the current project; if any components are branched, the command converts branches to checkouts.

```
CheckoutAllComps [available_flag]
```

Argument	Description
<i>available_flag</i>	Specifies whether to require that all components in the project be available for check out before proceeding.

The *available_flag* argument can have one of two values:

Value	Description
0	The default. Check out any available components and ignores any components that cannot be checked out.
1	A check is made to see that all components in the project can be checked out before proceeding, and an error will be invoked if some components are not available

This command is useful if you want to ensure that your workspace has exclusive write locks on an entire project. For example, if you are importing project definition information using the `ImportPlan` command or the Project Workshop, you want to make sure that you have checked out all parts of the project that might be updated.

CheckoutComp

The `CheckoutComp` command checks out the specified component in the current project.

```
CheckoutComp component_name
```

Argument	Description
<i>component_name</i>	The name of a component in the current project to check out.

Checkout lock Checking out a component gives the current workspace an exclusive write lock, or *checkout lock*, for the component in the repository. After you check out a component, you can modify a copy of the component in your workspace, then integrate your changes.

You can invoke the `CheckoutComp` command from a shadow repository only if you are attached to the central repository. If you want to change a component in a detached shadow repository, you can use the `BranchComp` command.

If the specified component is already branched, the branch is converted to a checkout on the component.

Because checkout locks are exclusive, no other workspace can check out the same component until the lock is removed. You can remove a checkout lock by integrating your changes, or by releasing the checked-out component.

To integrate changes to a checked-out component into the system baseline in the repository, use the `IntegrateWorkspace` command.

To release a checked-out component, you can use the `UndoCheckout`, `RevertProj` or `BranchComp` commands.

If you want to get temporary write access to a component without maintaining an exclusive lock on it, you can use the `BranchComp` command.

CheckoutPlan

The `CheckoutPlan` command checks out the current business model or application model. This command cannot check out projects; to check out a component of a project, use the `CheckoutComp` command.

`CheckoutPlan`

Checking out a plan gives the current workspace an exclusive write lock, or *checkout lock*, for the plan in the repository. After you check out a plan, you can modify a copy of the plan in your workspace, then integrate your changes.

You can invoke the `CheckoutPlan` command from a shadow repository only if you are attached to the central repository. If you want to change a plan in a detached shadow repository, you can use the `BranchPlan` command.

If the current plan is already branched, the branch is converted to a checkout on the plan.

Because checkout locks are exclusive, no other workspace can check out the same plan until the lock is removed. You can remove a checkout lock by integrating your changes, or by releasing the checked-out plan.

To integrate changes to a checked-out plan into the system baseline in the repository, use the `IntegrateWorkspace` command.

To release a checked-out plan, you can use the `UndoCheckoutPlan` or `BranchPlan` commands.

If you want to get temporary write access to a plan without maintaining an exclusive lock on it, you can use the `BranchPlan` command.

Chmod

The `Chmod` command changes the permissions of the specified file in the local file system for all user groups.

```
Chmod mode file_name
```

Argument	Description
<i>mode</i>	The permissions that you want to set for the file. <i>mode</i> can be none, read, readwrite, execute, readexecute, or all.
<i>file_name</i>	The name of the file on which you are changing the permissions.

mode defines the permissions you want to set for the file. The following table describes the possible values for *mode*:

<i>mode value</i>	Description
none	Users cannot access this file.
read	Users can only read this file.
readwrite	Users can read and write into this file.
execute	Users can only execute this file.
readexecute	Users can read and execute this file.
all	Users can read, write, and execute this file.

Specify the *file_name* argument in local operating system format, by default. If you invoke the `UsePortable` command, however, the argument must be specified in portable file format.

Close

The `Close` command closes the current open workspace.

If you have outstanding changes that have not been committed, the `Close` command prompts you to save the changes.

```
Close
```

You can only use the `Close` command on an open workspace. For information about opening a workspace, see [“Open” on page 109](#).

To leave Fscript, you should invoke the `Exit` or `Quit` command.

CollectMem

The `CollectMem` command runs the memory reclamation (garbage collection) utility on Fscript.

```
CollectMem
```

Normally, iPlanet UDS automatically performs memory reclamation whenever memory is running low. You can use the `CollectMem` command to explicitly invoke the memory reclamation utility. For example, you might want to run the memory reclamation consistently at a certain time.

CommentOff

The `CommentOff` command tells iPlanet UDS to stop writing the comments in Fscript script files to standard output when they are processed by the `Include` command.

```
CommentOff
```

Use this command in scripts to stop Fscript from writing out the comments from script files to standard output. By default, these comments are not written to standard output. You can use the `CommentOn` and `CommentOff` commands to toggle this setting.

CommentOn

The `CommentOn` command tells iPlanet UDS to start writing the comments in Fscript script files to standard output when they are processed by the `Include` command.

```
CommentOn
```

Use this command in scripts to make Fscript write out the comments from script files to standard output. By default, comments are not written to standard output. You can use the `CommentOn` and `CommentOff` commands to toggle this setting.

Commit

The `Commit` command writes to the repository all changes made in the current workspace since the last `Commit` command.

```
Commit
```

You should frequently invoke the `Commit` command to ensure that you do not lose work. If you invoke the `Quit` or `Close` command after you have made changes to the repository but not invoked the `Commit` command, iPlanet UDS prompts you to save your work. If you choose not to save your work, iPlanet UDS discards all changes since the last `Commit` command.

If you are working with an attached shadow repository, the `Commit` command saves all current changes to both the attached shadow repository and the central repository. If you want to save the current changes only to the attached shadow repository, use the `Save` command (see “[Save](#)” on page 124).

Compile

The `Compile` command reads a file containing definitions of project components and inserts the components into the current project.

```
Compile file_name
```

Argument	Description
<i>file_name</i>	The file containing commands that define components of a project. Note: The <code>Compile</code> command assumes a default file name extension of “.4gl”.

The `Compile` command reads a file that contains TOOL statements that define one or more components or sub-components of a project and merges them into the current project. The `ImportClass` command and the `Compile` command are equivalent.

For information about importing and compiling an entire project, see [“ImportPlan” on page 82](#).

Before you can invoke the `Compile` command, you must check out or branch any component that will be changed by the contents of the file. New components are automatically added and checked out to the workspace.

A definition file processed by the `Compile` command can include statements for creating classes, service objects, constants, interfaces, and cursors. For information about the syntax of the TOOL statements used in a project definition file, see the *TOOL Reference Guide*. The `Compile` command checks for compilation errors as it reads the file.

You can use the `Compile` command to add an exported class or to add classes that contain references to window definitions contained in `.fsw` files created by the Window Workshop. For information about adding classes that contain references to window definitions, see the description of the `has file` clause of the `class` statement in the *TOOL Reference Guide*.

CAUTION Any project component in a file processed by the `Compile` command completely replaces the current component definition. When you compile a new class or interface definition, the entire previous set of attributes, events, methods and method definitions are replaced for that class.

The following example illustrates a file that can be used with the `Compile` command. Both the class and a method are defined in the same file. You can add any number of interfaces, classes, methods, and other components to the same file.

```

class weather inherits from object
has public
  method setctemp(temp : integer):void;
  lowf : integer;
  virtual lowc : integer = (get = (5.0/9.0)*(lowf- 32),
                           set = SetCTemp(lowc));
end class;

method weather.setctemp(temp : integer) : void
begin
  self.lowf = (9.0/5.0)*temp + 32;
end method;

```

CompilePlan

The `CompilePlan` command compiles the current plan. The current plan can be a project, an application model, or a business model.

```
CompilePlan [force_flag]
```

Argument	Description
<i>force_flag</i>	Flag indicating that iPlanet UDS should compile all parts of the current plan, even if some or all of the components are up-to-date. 1 specifies that iPlanet UDS should compile all of the components. 0 specifies that iPlanet UDS should compile only the out-of-date components. The default value is 0.

If the current plan is a project, the `CompilePlan` command compiles components of the project.

If the current plan is an application model or business model, the `CompilePlan` command generates TOOL code based on the model. For information about application models, business models, and the code generated using them, see *A Guide to Express*.

The `CompilePlan` command automatically commits the changes it makes in the workspace to the repository.

CompileWorkspace

The `CompileWorkspace` command compiles all plans in the current workspace.

```
CompileWorkspace [projects_only] [force]
```

Argument	Description
<i>projects_only</i>	A value of 0 (the default) compiles all plans in the current workspace. A value of 1 compiles only the projects in the workspace, not the other kinds of plans.
<i>force</i>	A value of 0 (the default) compiles only out-of-date objects in the current workspace. A value of 1 compiles all objects in the current workspace.

The `CompileWorkspace` command automatically commits the changes to the repository.

CopyFile

The `CopyFile` command copies a file or directory in the local file system.

```
CopyFile file1_name file2_name [r]
```

Argument	Description
<i>file1_name</i>	The name of the file to copy.
<i>file2_name</i>	The new file to create or overwrite.
<i>r</i>	Specifies to copy the directory and the entire subtree connected at that point, if <i>file1_name</i> is a directory.

Specify the *file1_name* and *file2_name* arguments relative to the current working directory. This is either the directory in which Fscript was started, or the last directory specified in the `cd` command.

Specify the file name arguments in local operating system format, by default. If you have invoked the `UsePortable` command, specify the arguments in portable file format.

If an existing file has the same name as *file2_name*, it is overwritten.

The `CopyFile` command, `Cp` command, and `Duplicate` command are synonyms.

Cp

The `Cp` command copies a file or directory in the local file system.

```
Cp file1_name file2_name [r]
```

Argument	Description
<i>file1_name</i>	The name of the file to copy.
<i>file2_name</i>	The new file to create or overwrite.
<i>r</i>	Specifies to copy the directory and the entire subtree connected at that point, if <i>file1_name</i> is a directory.

Specify the *file1_name* and *file2_name* arguments relative to the current working directory. This is either the directory in which `Fscript` was started, or the last directory specified in the `cd` command.

Specify the file name arguments in local operating system format, by default. If you have invoked the `UsePortable` command, specify the arguments in portable file format.

If an existing file has the same name as *file2_name*, it is overwritten.

The `CopyFile` command, `Cp` command, and `Duplicate` command are synonyms.

Delay

The `Delay` command delays the current task for the specified number of milliseconds.

```
Delay milliseconds
```

Argument	Description
<i>milliseconds</i>	The number of milliseconds that you want the current task to wait.

Use the `Delay` command in scripts to make the current task wait for the specified amount of time. For example, if your script invokes an operating system command using the `ExecCmd` command that starts a server, you might want to delay executing other commands in your script until after the server has probably started.

DetachFromCentral

The `DetachFromCentral` command detaches a shadow repository from the central repository.

```
DetachFromCentral
```

You can only use the `DetachFromCentral` command if you are using a shadow repository that is currently attached to a central repository.

When you detach from the central repository, iPlanet UDS ensures that the shadow repository contains all components in the current workspace, so the command might take a long time to complete.

The `DetachFromCentral` command commits changes in the current workspace to the central repository before detaching the shadow repository.

After iPlanet UDS detaches the shadow repository, all changes to components in the current workspace are written to the shadow repository. To re-establish a connection to a central repository, invoke the `AttachToCentral` command.

Once detached, you cannot open any other workspaces in the detached shadow repository until you reattach to the central repository.

After you detach a shadow repository, you can open the repository in standalone mode. However, if you need distributed access for other operations, such as accessing a database, you still need to run in distributed mode.

NOTE You cannot check out components while detached. However, any components that you check out before you invoke the `DetachFromCentral` command remain checked out. You can, however, branch additional components and create new projects and models.

After you invoke the `DetachFromCentral` command, other users of the central repository can access your detached workspace in read mode only. Only the detached shadow repository can modify the contents of the workspace. If the detached shadow repository becomes corrupted, use the `ForceWorkspaceUnreserved` command to release the lock on the workspace.

For information about creating a shadow repository, see *A Guide to the iPlanet UDS Workshops* or the *iPlanet UDS System Management Guide*.

Directory

The `Directory` command lists the files in the specified directory.

```
Directory [directory_name]
```

Argument	Description
<i>directory_name</i>	The name of a directory. The default is the current working directory for Fscript.

This command lists the full names and permissions for all the files in the specified *directory_name*. If no *directory_name* is specified, the current working directory for Fscript is used. The current working directory is either the directory in which Fscript was started, or the last directory set by the `cd` command.

Specify the *directory_name* in local operating system format unless you have invoked a `UsePortable` command for using portable file formats.

The `ListFiles` command, the `Ls` command, and the `Directory` command are synonyms.

DisableAppComp

The `DisableAppComp` command defines a partition on a node in the current application configuration as disabled.

```
DisableAppComp node_name [partition_name]
```

Argument	Description
<i>node_name</i>	The node on which the partition is to be disabled.
<i>partition_name</i>	The optional name of the partition to be disabled.

The `DisableAppComp` command defines the specified partition on the specified node as disabled, which means that the partition does not automatically start when the application needs to use this partition. For example, this might be a replicated partition and another copy of this partition is enabled. Only the enabled copy of the partition starts automatically when the application needs this partition.

The *node_name* argument is the name of a node in the environment to which the partition has already been assigned, either as part of the default partitioning, or using the `AssignAppComp` command.

The optional *partition_name* argument is the name of the partition to be disabled on the node. You can specify the unique trailer portion of the name only, such as "client", to identify the partition. If no *partition_name* is given, then the current partition is disabled. Use the `FindAppComp` command on the current configuration to designate a current partition.

A partition within a project can be assigned to one or more nodes within the environment. For non-replicated partitions that are to be placed on servers, only one of the assigned nodes can be designated the node on which the partition is to be automatically started and managed. This is done by the default partitioning, or by invoking the `EnableAppComp` command for the partition on that node. For replicated partitions, any number of assigned nodes can be enabled using the `EnableAppComp` command, and servers will be automatically started on all of the enabled nodes.

Use the `DisableAppComp` command to leave the node as an assigned node for the partition, but not to automatically start the server on that node when the system runs the application.

Duplicate

The `Duplicate` command copies a file in the local file system.

```
Duplicate file1_name file2_name
```

Argument	Description
<i>file1_name</i>	The name of the file to copy.
<i>file2_name</i>	The new file to create or overwrite.

Specify the *file1_name* and *file2_name* arguments relative to the current working directory. This is either the directory in which `Fscript` was started, or the last directory specified in the `cd` command.

Specify the file name arguments in local operating system format, by default. If you have invoked the `UsePortable` command, specify the arguments in portable file format.

If an existing file has the same name as *file2_name*, it is overwritten.

The `CopyFile` command, `Cp` command, and `Duplicate` command are synonyms.

EnableAppComp

The `EnableAppComp` command enables the specified partition to automatically start on the specified node, in the application started by the current project.

```
EnableAppComp node_name [partition_name]
```

Argument	Description
<i>node_name</i>	The node on which the component is be enabled.
<i>partition_name</i>	The optional name of a partition in the current configuration for which a node is to be enabled.

The `EnableAppComp` command specifies that a component, which has already been assigned to a node in the environment, be enabled to automatically start on that node. The partition then automatically starts when the application needs to use this partition. For example, this partition might be replicated, and another copy of this partition is disabled. Only the enabled copy of the partition starts automatically when the application needs this partition.

The `node_name` argument is the name of a node in the environment to which the component has already been assigned, either as part of the default partitioning, or through the `AssignAppComp` command.

The optional `partition_name` is the name of the partition to be enabled on the node. You can specify the unique trailer portion of the name only, such as “client”, to identify the partition. If no `partition_name` is given, then the current partition is enabled. Use the `FindAppComp` command on the current configuration to designate a current partition.

A partition within an application can be assigned to one or more nodes within the environment. For non-replicated partitions that are to be placed on servers, only one of the assigned nodes can be designated the node on which the partition is to be automatically started and managed. This is done by the default partitioning, or by invoking the `EnableAppComp` command for the partition on that node. For replicated partitions, any number of assigned nodes can be enabled using the `EnableAppComp` command, and servers will be automatically started on all of the enabled nodes.

Use the `DisableAppComp` command to leave the node as an assigned node for the partition, but not to automatically start the server on that node when the system runs the application.

ExcludePlan

The `ExcludePlan` command removes the specified plan from the current workspace. The plan can be a project, an application model, or a business model.

`ExcludePlan` *plan_name*

Argument	Description
<i>plan_name</i>	The name of the plan to remove. This name must be the name of a project, business model, or application model included in your workspace.

If the specified plan has been created in this workspace and never integrated into the system baseline, then an `ExcludePlan` command completely removes the plan from the repository. For information about removing an integrated plan from the repository, see [“RemovePublicPlan” on page 117](#).

You *cannot* exclude a plan from your workspace if the plan is:

- included as a supplier plan in any project or model in your workspace
- a project that has components checked out
- a checked-out application model or business model

If you are using an attached shadow repository, all current changes are automatically written to the central repository.

ExecCmd

The `ExecCmd` command invokes the specified operating system command.

```
ExecCmd opsys_command [bg_flag] [in_file] [out_file] [err_file]
```

Argument	Description
<i>opsys_command</i>	A valid operating system command appropriate to the system on which you are running Fscript.
<i>bg_flag</i>	Flag to specify whether the command runs synchronously or asynchronously. The default is synchronously (0). 1 specifies asynchronously.
<i>in_file</i>	An alternate input file for the operating system command.
<i>out_file</i>	An alternate output file for the operating system command.
<i>err_file</i>	An alternate error file for the operating system command.

This runs the command specified in the *opsys_command* argument. You can specify command line arguments to the command by enclosing the command in double quotes.

Each operating system command executes in its own command shell process. Therefore, to execute a series of related commands, you might want to write a script and invoke that script using the `ExecCmd` command.

The *bg_flag* can be set to 0 to indicate that the command is to be run synchronously until it completes, or 1 to indicate that the command is to be started up in the background (asynchronously). By default, commands are run synchronously.

You can use the *in_file*, *out_file* and *err_file* arguments to redirect the input, output or errors for the command.

Special syntax for OpenVMS On OpenVMS, if you want OpenVMS to execute the command, you need to specify the characters "\$ " (dollar-sign and a space) before the command name so that OpenVMS knows to look for an executable (.com or .exe) file or DCL symbol. If you explicitly specify a path and file extension, OpenVMS tries to execute that particular file in the specified path. You cannot specify both "\$ " and a path.

The following example shows how you would use the `ExecCmd` command with the "\$ " syntax. In this example, the `ExecCmd` command invokes the `OpenVMS SHOW DEFAULT` command, which prints the current directory to the `A.OUT` file. This example then invokes the `ListFile` command to display the contents of the `A.OUT` file:

```
ExecCmd "$ SHOW DEFAULT" "" A.OUT A.OUT
fscript > ListFile A.OUT
>>> BEGIN LISTING <<<
  1>   USER:[TOM]
>>> END LISTING <<<
```

The following example shows how you could use the `ExecCmd` command with a full path name and filename to invoke the iPlanet UDS Corbagen executable. Note that the following command is invoked on one line:

```
ExecCmd "FORTE_ROOT:[INSTALL.BIN.ALPHA]CORBAGEN /CORBA_TYPE=OBB
/IDL_FILE=NEW.IDL"
```

Exit

The `Exit` command exits Fscript.

```
Exit
```

This command will prompt you to save changes before allowing you to leave without saving changes. To commit any outstanding changes, you must use the `Commit` command before using the `Exit` command.

The `Exit` command and the `Quit` command are synonyms.

ExitIfNoEnvMgr

The `ExitIfNoEnvMgr` command causes Fscript to exit as soon as there is no active environment manager.

```
ExitIfNoEnvMgr
```

The `ExitIfNoEnvMgr` has Fscript exit if no environment manager is currently running and Fscript is running in distributed mode.

You can use this command in batch scripts to detect error conditions.

ExitStatus

The `ExitStatus` command sets a return value for this session of Fscript. This value is returned to the routine that started this session of Fscript when Fscript exits.

```
ExitStatus integer
```

Argument	Description
<i>integer</i>	The value returned to the routine that started Fscript. By default, the return value is 0 for if Fscript completed without errors or 1 if Fscript exited abnormally. You can define other numeric values that are meaningful to you.

The routine that started Fscript can check this return value to determine whether Fscript completed without errors or exited abnormally.

ExportClass

The `ExportClass` command exports the definition of a single class or interface in the current project into a text file for backup or for transfer to another project or repository.

```
ExportClass class_name file_name [noids | ids]
```

Argument	Description
<i>class_name</i>	The name of a class or interface in the current project that is to be exported to a file.
<i>file_name</i>	The name of a file into which to write the class definition. If the file already exists, it is replaced.
<i>noids</i> <i>ids</i>	<i>noids</i> specifies that unique identifiers not be included in the class or interface definition. <i>noids</i> is the default. <i>ids</i> specifies that unique identifiers should included in the interface definition.

The exported file can subsequently be read back in by using the `ImportClass` or `Compile` command.

You must specify the *file_name* argument in local operating system format, unless you have previously invoked the `UsePortable` command.

The *noids* | *ids* argument specifies whether universal unique identifiers (UUIDs) are included in the information exported to the file. *noids* (the default) specifies that UUIDs are *not* included in the export file. *ids* specifies that the UUIDs are included in the export file.

NOTE For subclasses of the `UserWindow` class, the output file contains a text encoding of the class's window and menu definitions. These parts of the file cannot be edited. You can use the `ExportWindowClass` command to write out a `UserWindow` subclass to a file and the encoded window file to a separate file.

ExportPlan

The `ExportPlan` command writes the definition of the current plan to a text file for backup or for transfer to another repository. The current plan can be a project, an application model, or a business model.

There are two different versions of the syntax of the `ExportPlan` command: one for projects, the other for application models and business models. Before invoking the `ExportPlan` command, you must use the `FindPlan` command to set the current plan.

Export a project For a project, the `ExportPlan` command exports the definitions of all classes, service objects, interfaces, cursors, and constants in the project, as well as the list of the supplier projects and properties of the current project. The file is readable and contains the project definition statements described in the *TOOL Reference Guide*.

```
ExportPlan file_name [noids | ids]
```

Argument	Description
<i>file_name</i>	The name of a file to write the plan definition into, given in local operating system format. If the file already exists, it is replaced.
noids ids	noids specifies that unique identifiers not be included in the class or interface definition. noids is the default. ids specifies that unique identifiers be included in the class or interface definition.

You must specify the *file_name* argument in local operating system format, unless you have previously invoked the `UsePortable` command.

The `noids | ids` argument specifies whether universal unique identifiers (UUIDs) and runtime IDs are included in the information exported to the file. `noids` (the default) specifies that these IDs are *not* included in the export file. `ids` specifies that these IDs are included in the export file.

Export an application model or business model For an application model or business model, the `ExportPlan` command exports the definition of the model as text to a file. For more information about the export format of models, see *A Guide to Express*.

```
ExportPlan file_name
```

Argument	Description
<i>file_name</i>	The name of a file to write the plan definition into, given in local operating system format. If the file already exists, it is replaced.

The file that you export can be re-imported into the same or a different repository by using the `ImportPlan` command.

You can edit the exported plan file, but you should be careful if you change the output of the `ExportPlan` command, as there are often two definitions of a class and its attributes and methods in the file. Project components are often preceded by the qualified project name, so if you try to change the project name, you must be sure to change the name in all references before importing the project.

ExportTemplate

The `ExportTemplate` command exports the current project as an Express template file.

```
ExportTemplate file_name
```

Argument	Description
<i>file_name</i>	The file to contain the exported template.

This template file is exported to the current working directory as *file_name.tpl*. This template can then be used by advanced Express developers to customize generated code.

CAUTION These templates are intended for use by consultants and specialized developers only. For information about using these templates, contact iPlanet UDS Technical Support.

ExportWindowClass

The `ExportWindowClass` command exports the specified `UserWindow` subclass in the current project to two files:

- the specified *class_file* for the class definition
- the specified *window_file* for the window definition

```
ExportWindowClass class_name class_file window_file [noids | ids]
```

Argument	Description
<i>class_name</i>	The name of a class in the current project that is to export to a file.
<i>class_file</i>	The name of a file into which to write the class definition. If the file already exists, it is replaced.
<i>window_file</i>	The name of the file into which to write the window definition. If the file already exists, it is replaced.
noids ids	noids specifies that class identifiers not be included in the class definition. noids is the default. ids specifies that class identifiers be included in the class definition.

Specify the *class_file* and the *window_file* arguments in local operating system format, unless you have previously invoked the `UsePortable` command.

The `noids | ids` argument specifies whether universal unique identifiers (UUIDs) are included in the information exported to the file. `noids` (the default) specifies that UUIDs are *not* included in the export file. `ids` specifies that the UUIDs are included in the export file.

You can use the `ExportWindowClass` command to create the separate window file for import into the Window Workshop. You could also export `UserWindow` subclasses by using the `ExportClass` command, in which case the window portion is exported in an encoded form in the exported class file.

To import the exported files, use the `ImportClass` or `Compile` command.

ExportWorkspace

The `ExportWorkspace` command writes the definition of all plans in the current workspace to a readable text file for backup or for transfer to another repository.

```
ExportWorkspace file_name [noids | ids]
```

Argument	Description
<i>file_name</i>	The name of a file to write the plan definitions into, given in local operating system format. If the file already exists, it is replaced.
<i>noids</i> <i>ids</i>	<i>noids</i> specifies that unique identifiers not be included in the class or interface definition. <i>noids</i> is the default. <i>ids</i> specifies that unique identifiers be included in the class or interface definition.

You must specify the *file_name* argument in local operating system format, unless you have previously invoked the `UsePortable` command.

The *noids* | *ids* argument specifies whether universal unique identifiers (UUIDs) and runtime IDs are included in the information exported to the file. *noids* (the default) specifies that these IDs are *not* included in the export file. *ids* specifies that these IDs are included in the export file.

If the workspace contains projects, the projects are exported as project definition statements as described in the *TOOL Reference Guide*. If you choose, you can modify the project definitions before you re-import the file.

If the workspace contains application models or business models, the file contains information that should *not* be modified.

To import one or more plan definitions, use the `ImportWorkspace` OR `ImportPlan` command, as described in [“ImportPlan” on page 82](#).

FindActEnv

The `FindActEnv` command designates the active environment as the current environment for use in partitioning the current application or partitioning a new library configuration.

```
FindActEnv
```

You must designate a current environment before partitioning any application or library project.

You can also use the `FindEnv` command to designate one of the simulated environments for partitioning.

FindAppComp

The `FindAppComp` command designates a specified partition or library project within the current configuration that you want to set as the current application component.

```
FindAppComp component_name
```

Argument	Description
<i>component_name</i>	The name of an application component within the current application.

A number of `Fscript` commands operate on the current component within a configuration. The `FindAppComp` command designates the component to be used for those commands. Before you can work with partitions or library projects, you must partition the application or library project using the `Partition` command to generate the default configuration.

You can specify the trailing part of the component name (such as “client”) to identify the component uniquely. Use the `ShowApp` command to get a list of components in the current configuration of the application.

FindEnv

The `FindEnv` command designates the specified environment in the environment repository or environment manager as the current environment.

```
FindEnv environment_name
```

Argument	Description
<i>environment_name</i>	The name of a simulated environment.

The `FindEnv` command designates the specified simulated environment as the current environment for use in partitioning the current application or partitioning a new library configuration. You must designate a current environment before partitioning an application or library.

The *environment_name* must be the name of a simulated environment that is contained in the active environment's repository.

You can also use the `FindActEnv` command to designate the current active environment for partitioning.

FindPlan

The `FindPlan` command designates the specified plan in the current workspace as the current plan.

```
FindPlan plan_name
```

Argument	Description
<i>plan_name</i>	The name of a plan within the current workspace.

The plan specified by *plan_name* can be a project, an application model, or a business model in your workspace.

You must specify the name of a plan that has been included or created in your workspace. You might need to invoke an `IncludePublicPlan` command to add a public plan to your workspace before you can start to work on it.

The current plan can be a project, an application model, or a business model. When the current plan is an application model or a business model, there is no current project.

ForceWorkspaceUnreserved

The `ForceWorkspaceUnreserved` command forces the specified workspace to become unreserved.

```
ForceWorkspaceUnreserved workspace [workspace_password]
```

Argument	Description
<i>workspace</i>	The name of the workspace to be unreserved.
<i>workspace_password</i>	The optional password for the workspace to be unreserved. If a password is set for this workspace, then the password is required.

The `ForceWorkspaceUnreserved` command should be used only when the shadow repository that has the reservation on the workspace has been corrupted or to release a lock held by a detached shadow repository. To recover changes made in a detached shadow repository whose lock is released with this command, you can export the workspace and import the changes into the central repository. If the shadow repository is attached to the central repository when you use the `ForceWorkspaceUnreserved` command, then the changes in this repository are lost.

When you detach a shadow repository from the central repository, the workspace is considered to be reserved to the shadow repository, and is locked in the central repository, so that other workspaces cannot open the workspace in read-write mode, or detach from the central repository using that workspace. The workspace can also be reserved to an attached shadow repository if the shadow repository contains changes that are not yet committed to the central repository.

Because shadow repositories do not use files that are as protected from corruption as the central repository, and because of the very nature of distributed work, shadow repositories can become corrupted or lost, and must be discarded. The central repository will, however, be completely up-to-date with the changes to the shadow repository up until the time of the last time the shadow repository was detached from the central repository or the last time an attached shadow repository committed its changes. Therefore, the central repository provides significant backup storage for the shadow repository. To remove the reservation on the workspace in the central repository, you should use the `ForceWorkspaceUnreserved` command.

► **To recover from a lost or corrupted shadow repository**

1. Use the Fscript `ForceWorkspaceUnreserved` command while connected to the central repository.
2. Create a new shadow repository, overwriting the existing corrupted shadow repository if necessary.

Help

The `Help` command provides help for Fscript commands.

```
Help [command_name | match_string]
```

Argument	Description
<i>command_name</i>	The name of an Fscript command.
<i>match_string</i>	The partial name of a command followed by an asterisk.

With no arguments given, the `Help` command lists all Fscript commands. If you specify the *command_name* argument, this command lists the arguments and a short description for the specified Fscript command.

If a match string is given (an asterisk at the end of the string), this command lists all matching commands, their arguments and a short description. For example, the following command lists all of the Fscript `Set...` commands:

```
Fscript> Help Set*
```


ImportClass

The `ImportClass` command reads a file containing definitions of project components and inserts the components into the current project.

```
ImportClass file_name
```

Argument	Description
<code>file_name</code>	The file containing commands that define components of a project. Note: The <code>ImportClass</code> command assumes a default file name extension of “.4gl”.

The `ImportClass` command reads a file that contains `TOOL` statements that define one or more components or sub-components of a project and merges them into the current project. The `ImportClass` command and the `Compile` command are equivalent.

For information about importing and compiling an entire project, see [“ImportPlan” on page 82](#).

Before you can invoke the `ImportClass` command, you must check out or branch any component that will be changed by the contents of the file. New components are automatically added and checked out to the workspace.

A definition file processed by the `ImportClass` command can include statements for creating classes, interfaces, service objects, constants, and cursors. For information about the syntax of the `TOOL` statements used in a project definition file, see *TOOL Reference Guide*. The `ImportClass` command checks for compilation errors as it reads the file.

You can use the `ImportClass` command to add an exported class or interface to add classes that contain references to window definitions contained in `.fsw` files created by the Window Workshop. For information about adding classes that contain references to window definitions, see the description of the `has file` clause of the `class` statement in the *TOOL Reference Guide*.

CAUTION Any project component in a file processed by the `ImportClass` command completely replaces the current component definition. When you compile a new class or interface definition, the entire previous set of attributes, events, methods and method definitions are replaced for that class.

The following example illustrates a file that can be used with the `ImportClass` command. Both the class and a method are defined in the same file. You can add any number of classes, methods, and other components to the same file.

```
class weather inherits from object
has public
  method setctemp(temp : integer):void;
  lowf : integer;
  virtual lowc : integer = (get = (5.0/9.0)*(lowf- 32),
                           set = SetCTemp(lowc));
end class;

method weather.setctemp(temp : integer) : void
begin
  self.lowf = (9.0/5.0)*temp + 32;
end method;
```

ImportPlan

The `ImportPlan` command reads a file containing a definition of one or more plans into your repository.

```
ImportPlan file_name [merge]
```

Argument	Description
<i>file_name</i>	The name of a file containing plan definition information.
merge	(For projects only) Specifies whether to keep or delete components of the project that are in the repository but not in the import file. The default value is <code>merge</code> , which keeps components that are not in the import file. The value <code>nomerge</code> deletes components not present in the imported file. The value <code>prompt</code> prompts the user whether to keep or delete these components when importing a project. Application and business models are always replaced by the imported plan.

The plans can be projects, application models, or business models.

The `ImportPlan` command imports the plans specified in the file. The plans named there may or may not already exist in your workspace.

If the plans are projects, then the definition information in the file could be created by either exporting projects using the `ExportPlan` or `ExportWorkspace` commands or by writing the definition information yourself using `TOOL` statements described in *TOOL Reference Guide*. If a project does not exist in your workspace, a new project is created. If a project does exist, components of the project that are redefined in the imported file are overwritten.

By default, if you import into a project that already contains components, the components in the export file will be merged with the existing components. Components in the export file using the same names as existing components will replace the existing components. If there are existing components in the project that have no new definitions in the export file, the components remain unchanged in the project. However, you can specify `nomerge` for the `merge` argument to have the imported projects completely replace the existing projects in the repository, which includes deleting components that are not included in the export file. You could alternatively specify `prompt`, to be prompted whether to merge or replace the projects.

Before you can import an existing project, all components that will be overwritten by newer versions from the imported file must be checked out or branched in your workspace. New components in the export file will be added and automatically checked out to the workspace. See [“CheckoutAllComps” on page 55](#) or [“BranchAllComps” on page 52](#) for information about branching or checking out all project components.

If the plans are application models or business models, the definition information in the file must have been previously exported using the `ExportPlan` command. If the model does not exist in your workspace, a new model is created. If the model does exist, the imported model completely replaces the existing model.

Before you can import an existing model, the model must be checked out or branched in your workspace. See [“CheckoutPlan” on page 56](#) or [“BranchPlan” on page 53](#) for information about branching or checking out models.

NOTE `ImportPlan` automatically commits changes to the repository as it imports a project—if the command gets errors, successfully imported classes are committed to the repository.

ImportWorkspace

The `ImportWorkspace` command reads a file containing a definition of one or more plans into your repository.

```
ImportWorkspace file_name [merge]
```

Argument	Description
<i>file_name</i>	The name of a file containing definition information for one or more plans.
merge	(For projects only) Specifies whether to keep or delete components of the projects that are in the repository but not in the import file. The default value is <code>merge</code> , which keeps components that are not in the import file. The value <code>nomerge</code> deletes components not present in the imported file. The value <code>prompt</code> prompts the user whether to keep or delete these components when importing a project. Application and business models are always replaced by imported plans.

The plans can be projects, application models, or business models.

The `ImportWorkspace` command imports the plans specified in the file. The plans named there may or may not already exist in your workspace.

If the plans are projects, then the definition information in the file could be created by either exporting projects using the `ExportPlan` or `ExportWorkspace` commands or by writing the definition information yourself using `TOOL` statements described in *TOOL Reference Guide*. If a project does not exist in your workspace, a new project is created. If a project does exist, components of the project that are redefined in the imported file are overwritten.

By default, if you import into a project that already contains components, the components in the export file will be merged with the existing components. Components in the export file using the same names as existing components will replace the existing components. If there are existing components in the project that have no new definitions in the export file, the components remain unchanged in the project. However, you can specify `nomerge` for the `merge` argument to have the imported projects completely replace the existing projects in the repository, which includes deleting components that are not included in the export file. You could alternatively specify `prompt`, to be prompted whether to merge or replace the projects.

Before you can import an existing project, all components that will be overwritten by newer versions from the imported file must be checked out or branched in your workspace. New components in the export file will be added and automatically checked out to the workspace. See [“CheckoutAllComps” on page 55](#) or [“BranchAllComps” on page 52](#) for information about branching or checking out all project components.

If the plans are application models or business models, the definition information in the file must have been previously exported using the `ExportPlan` or `ExportWorkspace` command. If the model does not exist in your workspace, a new model is created. If the model does exist, the imported model completely replaces the existing model.

Before you can import an existing model, the model must be checked out or branched in your workspace. See [“CheckoutPlan” on page 56](#) or [“BranchPlan” on page 53](#) for information about branching or checking out models.

NOTE `ImportWorkspace` automatically commits changes to the repository as it imports a project—if the command gets errors, successfully imported classes are committed to the repository.

Include

The `Include` command executes the Fscript commands in the specified script file.

```
Include file_name
```

Argument	Description
<i>file_name</i>	The name of a file containing Fscript commands to execute.

You can store a commonly executed set of Fscript commands in a script file, then run the commands using the `Include` command.

The `Include` command uses the current directory search path in determining the location of the script file. See [“SetPath” on page 135](#) for more information.

A script file can contain comments, which are any lines beginning with the `#` sign.

IncludePublicPlan

The `IncludePublicPlan` command includes a plan in the current workspace. A plan can be a project, an application model, or a business model.

```
IncludePublicPlan plan_name
```

Argument	Description
<i>plan_name</i>	The name of the plan to include. This must be the name of a public plan that is not yet included in your workspace.

If you are using a shadow repository, you must be attached to the central repository before you can invoke the `IncludePublicPlan` command.

The plan you include must be in the repository, but must not yet be included in the current workspace. If this public plan has supplier plans that are not yet included in the current workspace, these plans are automatically included as well.

You must commit any outstanding changes to the repository before invoking the `IncludePublicPlan` command. The `IncludePublicPlan` command automatically commits the changes it makes to the workspace.

NOTE After invoking an `IncludePublicPlan` command in a workspace, you should immediately invoke the `UpdateWorkspace` command to synchronize with the other plans in the workspace.

The `IncludePublicPlan` command adds the plan to a workspace as it exists in the system baseline. You must invoke the `UpdateWorkspace` command to make sure that your workspace is synchronized with the system baseline for any plans that act as supplier plans to both the plan to be included, and any plans already included in your workspace. If you do not update the workspace, serious problems can occur because the newly included plan might have dependencies on plans that are newer than the plans and components used in your workspace.

The following example illustrates use of the `IncludePublicPlan` command:

```
Fscript> Commit
Fscript> IncludePublicPlan otherplan
Fscript> UpdateWorkspace
Fscript> FindPlan otherplan
```

IncreaseCompatLevel

The `IncreaseCompatLevel` command increases the compatibility level of the current project by 1.

```
IncreaseCompatLevel
```

Projects within an environment are identified by name and compatibility level. You can deploy an application where the compatibility level is set to one value, and then invoke the `IncreaseCompatLevel` command to increment the compatibility level for the project in order to continue development on the project. When you go to deploy the new version of the application, there will be no conflict with the previous version, and they can be executed at the same time.

IntegrateWorkspace

The `IntegrateWorkspace` command checks in all the changes you made in the current workspace since your last `IntegrateWorkspace` command to the system baseline in the repository.

```
IntegrateWorkspace comment [logfile_name] [baseline_password]
```

Argument	Description
<i>comment</i>	A comment to enter into the repository. A comment must take one of three forms: a string enclosed in double quotes, a question mark (?), in which case Fscript will prompt for the comment, or a colon (:) followed by a file name.
<i>logfile_name</i>	The name of the log file in which to list the status of the <code>IntegrateWorkspace</code> operation. If not specified, the status will be put in the Fscript standard output.
<i>baseline_password</i>	If the repository has a baseline password, you must specify the password in the <code>IntegrateWorkspace</code> command.

After the `IntegrateWorkspace` command has completed, any other workspaces can invoke the `UpdateWorkspace` command to see the changes made by this workspace.

The *comment* argument is required and can take one of three forms. If a string enclosed in double quotes is specified, that is used as the comment. If a single question mark is specified, Fscript prompts for a comment to be entered. If a colon followed by a valid file name is specified, the comment is read from that file. Specify the comment file name in local operating system format, unless the `UsePortable` command has been invoked previously in the session.

The optional *logfile_name* argument specifies the name of a file where the integration status messages will be written, in addition to the standard output. This allows you to keep a record of the integration status, and any problems that might occur in integrating. Specify *logfile_name* in local operating system format, unless the `UsePortable` command has been invoked previously in the session.

The following examples show possible `IntegrateWorkspace` commands:

```
Fscript> IntegrateWorkspace "Changes to fix bug 1234"  
Fscript> IntegrateWorkspace ? /mylogs/changelog.txt  
Fscript> IntegrateWorkspace :comment.txt
```

You must commit any outstanding changes to the repository before invoking the `IntegrateWorkspace` command. Once completed, the changes made by the `IntegrateWorkspace` command are automatically committed to the repository.

NOTE To invoke the `IntegrateWorkspace` command, you must first use the `UpdateWorkspace` command to synchronize your workspace with the system baseline. After testing to ensure that your projects are compatible with any changes made to other projects and components, you can then invoke the `IntegrateWorkspace` command to make your changes public.

If, between the time you invoke the `UpdateWorkspace` command and the `IntegrateWorkspace` command, some other workspace has invoked the `IntegrateWorkspace` command, iPlanet UDS rejects your `IntegrateWorkspace` command. If this occurs, reinvoke the `UpdateWorkspace` command, test to ensure that the recent changes have not caused problems, and then reinvoke the `IntegrateWorkspace` command.

The `IntegrateWorkspace` command checks in all components that you have checked out. To continue changing any plans in your workspace, you must invoke appropriate `CheckoutPlan`, `CheckoutComp`, or `CheckoutAllComps` commands.

A workspace cannot have any branched components or plans when you invoke the `IntegrateWorkspace` command. Before you can use the `IntegrateWorkspace` command, you must either convert them to checked out components by invoking the `CheckoutPlan` or `CheckoutComp` command on them, or revert to the system baseline version by invoking the `UndoBranchComp` or `UndoBranchPlan` command.

If you are using a shadow repository, you must be attached to the central repository before you can invoke the `IntegrateWorkspace` command.

Recovery from integration failures If the integration fails, any changes that have been made to the repository are backed out, and the repository is in the same state as before the `IntegrateWorkspace` command was invoked. The global repository lock, which prevents other developers from updating or integrating their workspaces, is automatically removed as part of the recovery process.

If the `IntegrateWorkspace` command fails because the repository client session that invoked the command fails, the repository server might not release the global repository lock held by the client session. You might need to use the `Fscript UnlockWorkspace` command to notify the repository server that the client session is no longer active. The `UnlockWorkspace` command, described in [“UnlockWorkspace” on page 160](#), unlocks both the workspace and any global repository locks held by that workspace. System managers can also unlock workspaces using `Escript` and `Environment Console` commands, as described in *Escript and System Agent Reference Guide*.

ListChangesInWorkspace

The `ListChangesInWorkspace` command lists all components and plans in the workspace that have a specific status with respect to check out or branching.

```
ListChangesInWorkspace [filter_type]
```

Argument	Description
<i>filter_type</i>	The filter to use for limiting the listing to objects that only have a certain status (see below for details). The default is “bnc” for all components and plans.

You can filter the list by specifying a *filter_type* of any combination of:

Filter Type	Description
b	Branched
c	Checked out and/or removed
n	New
r	Read only

ListComps

The `ListComps` command lists a subset of the project components in the workspace, with information about their branch or checkout status.

```
ListComps [comp_match_string] [filter_type] [proj_match_string]
```

Argument	Description
<i>comp_match_string</i>	Specifies the name of a component, or a match string for components (a prefix followed by an asterisk). The default is '*' for all components.
<i>filter_type</i>	The filter to use for limiting the listing to components that only have a certain status (see below for details). The default is "bncr."
<i>proj_match_string</i>	Specifies the name of a project in the current workspace, or a match string for projects (a prefix followed by an asterisk). The default is the current project only.

Use the *comp_match_string* argument to select a subset of component names (default is all components). You can give a prefix to the name, followed by an asterisk to list only some of the components (for example, "a*" will list only components starting with the letter a).

You can filter the list by specifying a *filter_type* of any combination of:

Filter Type	Description
b	Branched
c	Checked out and/or removed
n	New
r	Read only

The *proj_match_string* argument can be used to list components in the matching included projects in the workspace. This can be specified as a single project name, or a prefix followed by an asterisk to list all matching projects (for example, "pr*" will list components in all projects starting with the letters 'pr'). The default is to list components in the current project only.

ListEnvs

The `ListEnvs` command lists the names of the environments defined in the environment repository.

```
ListEnvs
```

This command will list the active environment name and any simulated environments that are in the active environment's repository. You can then invoke the `FindEnv` command or `FindActEnv` commands to designate one of the environments as the current environment for partitioning.

If you have started `Fscript` in standalone mode (with the `-fs` flag), `ListEnvs` cannot list any environments, because no environment repository is available.

ListFile

The `ListFile` command prints the contents of the specified file to standard output.

```
ListFile file_name
```

Argument	Description
<i>file_name</i>	The name of the file to print.

You should only print files containing text using the `ListFile` command.

If you do not specify a directory name, the command searches the current directory search path, as specified in the [“SetPath” on page 135](#).

ListFiles

The `ListFiles` command lists the files in the specified directory.

```
ListFiles [directory_name]
```

Argument	Description
<i>directory_name</i>	The name of a directory. The default is the current working directory for <code>Fscript</code> .

This command lists the full names and permissions for all the files in the specified *directory_name*. If no *directory_name* is specified, the current working directory for `Fscript` is used. The current working directory is either the directory in which `Fscript` was started, or the last directory set by the `cd` command.

Specify the *directory_name* in local operating system format unless you have invoked a `UsePortable` command for using portable file formats.

The `ListFiles` command, the `Ls` command, and the `Directory` command are synonyms.

ListPlans

The `ListPlans` command lists all plans in the current workspace that match the specified match string. If you do not specify a match string, the default is `""`, meaning all plans.

```
ListPlans [match_string | * ]
```

Argument	Description
<i>match_string</i>	A string of characters that matches the name of the plans you want to list. You can include <code>*</code> at the end of the string to get a list of plans whose names start with the string.
<code>*</code>	An asterisk requesting a list of all plans available in this workspace.

A plan can be a project, an application model, or a business model.

If you specify a *match_string* argument (with an asterisk at the end of the name), matching plan names are shown. If you specify an asterisk or no arguments, all plans are listed.

The plans are listed under the following headings:

- Projects
- Business Models
- Application Models

ListPublicPlans

The `ListPublicPlans` command lists all the public plans in the repository. Public plans can be projects, application models, or business models.

```
ListPublicPlans [match_string* | * ] [show_unintegrated] [show_internal]
```

Argument	Description
<i>match_string</i>	A set of characters followed by an asterisk to match plan names to list. The default is all plans.
<i>show_unintegrated</i>	Set to 1 to show a listing of the plans that have been created in workspaces but not yet integrated, or set to 0 to show only integrated plans. Default (0) is integrated only.
<i>show_internal</i>	Set to 1 to show the iPlanet UDS internal plans. Default (0) is not to show iPlanet UDS internal plans.

If you specify a *match_string* argument (an asterisk at the end of the name), matching plan names are shown. If you specify an asterisk or no arguments, all plans are listed.

The *show_unintegrated* argument can be 0 (the default) for showing only plans that have been integrated into the system baseline, or 1 to also show plans that have been created in workspaces but not yet integrated.

The *show_internal* argument can be 0 (the default) to exclude internal iPlanet UDS plans or 1 to list internal iPlanet UDS plans.

If there are plans in the public plan list that you would like to include in your workspace, you can invoke the `IncludePublicPlan` command to include them.

The plans are listed under the following headings:

- Projects
- Business Models
- Application Models

ListServiceApps

The `ListServiceApps` command lists the installed applications that contain the specified service object.

```
ListServiceApps service_object_name
```

Argument	Description
<code>service_object_name</code>	The name of a service object in a project in the current workspace. This must be given as a fully qualified name in the following format: <i>project_name.service_object_name.</i>

The `ListServiceApps` command lists the instances of a service object in the current environment. You can use these installed service objects as reference partitions in your current application. For more information about making reference partitions, see *A Guide to the iPlanet UDS Workshops*.

Before you can invoke the `ListServiceApps` command, you must generate a default configuration for the current application by invoking the `Partition` command.

The `ListServiceApps` command lists any other instances of the specified service object that have been distributed (and presumably installed) in the current environment. You can invoke the `UseServiceFromApp` command to define one of the installed service objects as a reference partition for the specified service object. When you later make a distribution for the current application and install the distribution in the environment, the current application will use the installed service object instead of creating and using a new service object.

For example, in the sample applications, there is a project called `ImageProject`, which contains a service object called `ImageService`. This project is defined as a supplier project to the `ImageTester` project, which has a simple window that displays images. You might invoke the following commands on the `ImageTester` project to configure and make a distribution for it:

```
Fscript> FindPlan ImageTester
Fscript> FindActEnv
Fscript> Partition
Fscript> Commit
Fscript> MakeAppDistrib
```

The resulting distribution can be installed in the environment. See the *iPlanet UDS System Management Guide* document for information on installing applications.

Another project in the sample applications, called Auction, also includes the ImageProject as a supplier project. When configured, we can direct Auction to share the ImageService from the ImageTester by invoking the following commands:

During testing, a private version of the service object and partition are used in Auction, but once it is installed, the service from ImageTester is used in its place.

```
Fscript> FindPlan Auction
Fscript> FindActEnv
Fscript> Partition
Fscript> ListServiceApps ImageTester.ImageService
Fscript> UseServiceFromApp ImageTester.ImageService ImageTester_c10
Fscript> Commit
Fscript> MakeAppDistrib
```

ListTestApps

The `ListTestApps` command lists all the main projects that are currently being partitioned in another session of Fscript or a session of the Partition Workshop.

```
ListTestApps [use_cache_flag]
```

Argument	Description
<code>use_cache_flag</code>	Specifies whether to use a stored cache for the list of the main projects being partitioned (1), or whether the environment is to be queried (0). Default is 0, meaning to query.

The `use_cache_flag` argument determines if the environment is to be queried again for the current list. 0 means do not use the current cached list and re-query the environment for the current list (the default), and 1 means use the current cached list.

The `ListTestApps` command, along with the `TestApp` command, let you set up tests of your distributed application with multiple client partitions running. You might want to do this to stress test your application, for example.

For information about setting up a test using the `ListTestApps` and `TestApp` commands, see [“TestApp” on page 155](#).

You can also test client partitions using the `TestClient` utility. This utility is explained in *A Guide to the iPlanet UDS Workshops*.

ListWorkspaces

The `ListWorkspaces` command lists the workspaces in the current repository.

```
ListWorkspaces [verbose_flag]
```

Argument	Description
<i>verbose_flag</i>	Specifies whether to display only the names of the workspaces (0) or to list the names and some information (1). Default is names only.

If the *verbose_flag* is set to 1, more information about each workspace is provided, such as whether the workspace is reserved.

Ls

The `Ls` command lists the full names and permissions for all the files in a specified directory.

```
Ls [directory_name]
```

Argument	Description
<i>directory_name</i>	The name of a directory. The default is the current working directory for Fscript.

If no *directory_name* is specified, the current working directory for Fscript is used. The current working directory is either the directory in which Fscript was started, or the last directory set by the `cd` command.

Specify the *directory_name* in local operating system format unless you have invoked a `UsePortable` command for using portable file formats.

The `ListFiles` command, the `Ls` command, and the `Directory` command are synonyms.

MakeAppDistrib

The `MakeAppDistrib` command creates an application distribution for the current configuration.

```
MakeAppDistrib [remake_flag] [node_name] [auto_compile] [install]
```

Argument	Description
<i>remake_flag</i>	Flag that specifies whether to make a completely new distribution or to make new distribution parts for components that have changed. 1 indicates a completely new distribution and 0 indicates new distribution parts for changed components. The default value is 0.
<i>node_name</i>	The node where the distribution is to be written. Default or empty string ("") is the local node running Fscript.
<i>auto_compile</i>	Flag indicating that iPlanet UDS should automatically try to compile the generated files. 1 specifies that iPlanet UDS should automatically try to compile. 0 specifies that iPlanet UDS should <i>not</i> automatically try to compile. The default value is 0.
<i>install</i>	Flag indicating that iPlanet UDS should try to automatically install the application. 1 specifies that iPlanet UDS should try to automatically install the application. 0 specifies that iPlanet UDS should not try to automatically install the application. The default value is 0.

The `MakeAppDistrib` command makes the distribution files for iPlanet UDS applications and libraries. The distribution files form the basis of the files needed for installation in a runtime environment.

The *remake_flag* argument specifies whether to make a completely new distribution or to make new distribution parts for components that have changed. 1 indicates a completely new distribution and 0 indicates new distribution parts for changed components. The default value is 0.

The *node_name* argument specifies the node on which the distribution files are to be written. If it is omitted, or specified as an empty string (""), the distribution will be written on the node running Fscript. If you specify another *node_name*, the node manager must be currently running on that node in order to create the distribution on your behalf. In order to make a distribution on an alternate node, you must have the root iPlanet UDS directory for the alternate node mounted on the local node.

The *auto_compile* argument indicates whether iPlanet UDS should try to automatically compile the generated files. 1 specifies that iPlanet UDS should automatically try to compile. 0 specifies that iPlanet UDS should not automatically try to compile. The default value is 0.

If the application configuration contains components that are to be compiled, and you do not specify 1 for the *auto_compile* flag, then you must use some operating system commands to actually code generate and link together the compiled partition before the distribution is complete and ready to be loaded into a deployed environment. For more information about compiling partitions and libraries, see *A Guide to the iPlanet UDS Workshops*.

The *install* argument indicates whether iPlanet UDS should try to automatically install the application or the libraries. 1 specifies that iPlanet UDS should try to automatically install the application or the libraries. 0 specifies that iPlanet UDS should not try to automatically install the application or the libraries. The default value is 0.

An application distribution directory contains the files needed to install an application in a deployment environment. You should create one application distribution for each environment.

For information about distributions created for libraries and applications, see *A Guide to the iPlanet UDS Workshops*.

NOTE The behavior of this command is different depending on whether you are making a distribution for a C, DCE, or ObjectBroker project or for a TOOL application. For C, DCE, and ObjectBroker projects, the `MakeAppDistrib` command writes out the C++ wrapper code needed to construct the library that provides access to the C functions or C client stubs.

For details on completing the distribution and installation of C, DCE, and ObjectBroker projects, see *Integrating with External Systems*.

NOTE Be sure that the application configuration or library configuration is completely partitioned before running `MakeAppDistrib`. For information about partitioning, see *A Guide to the iPlanet UDS Workshops* or [“Partition” on page 111](#).

For information on installing application distributions in deployment environments, see the *iPlanet UDS System Management Guide*.

MemStats

The `MemStats` command prints memory statistics to standard output.

`MemStats`

You can use the `MemStats` command to get information about how memory is being used. You can use this information to diagnose memory problems, for example.

The following example shows sample output by the `MemStats` command:

```
fscript > memstats
! Memory Statistics
!
!   Minimum:2048   Incremental:1024   Maximum:10240   Utilization:85%
!   ExpandAt:80%   ExpandBy:10%   ContractAt:20%   ContractBy:5%
!   Mapped:4096   Active:2048   Allocated:1062   Available:368
!   LargePages:516   HugePages:0   Reserved:64   Immobile:50
!   Largest(Free:716   Possible:1028) Allocated(Peak:0   Total:1427)
!   Expansions:0   CopyCollects:1   TraceCollects:0
!
!-- Objects retained
!   <Small-Non-Objects>           2096   158664   75
!   <Large-Non-Objects>          142   491520   3461
!
!   TOTALS                       2238   650184
```

The following tables describes the contents of the output for this command:

Table 2-1 Output Descriptions for MemStats Command

Label	Description
Active	Current number of active pages in the memory manager.
Allocated	Current number of allocated pages in the memory heap.
Allocated (Peak : Total :)	Number of pages that have been allocated. Peak indicates the highest number of pages that have been allocated during this session and Total indicates the total number of pages that have been allocated during this session.
Available	Current number of available pages in the memory heap.
ContractAt	Threshold at which the memory pool should be contracted.
ContractBy	Percent by which the memory pool should be contracted.
CopyCollects	Number of incremental memory reclamations (garbage collections) that have occurred.
ExpandAt	Threshold at which the memory pool should be expanded.
ExpandBy	Percent by which the memory pool should be expanded.
Expansions	Number of times the memory has expanded.
Immobile	Objects in memory that cannot be moved by the memory manager.
Incremental	Incremental unit in pages by which memory is expanded or contracted.
LargePages	Number of pages contained in objects that are greater than 1K. These pages are not moved by the memory manager.
Largest (Free Possible)	Largest contiguous free block and the largest possible block.
Mapped	Size of memory allocated by iPlanet UDS and by non-iPlanet UDS components that are also running in the iPlanet UDS process.
Maximum	Maximum number of pages that can be allocated.
Minimum	Minimum number of pages that can be allocated.
Requested	Number of pages requested in the most recent allocation, which failed. This item indicates that an out of memory exception occurred.

Table 2-1 Output Descriptions for MemStats Command (*Continued*)

Label	Description
Reserved	Number of pages that are reserved in case an out of memory exception occurs, so that iPlanet UDS can perform an orderly shutdown.
TraceCollects	Number of comprehensive memory reclamations (garbage collections) that have occurred.
Utilization	Target percentage of the active memory heap that should be allocated to live pages.

Mkdir

The `Mkdir` command creates a directory, in the operating system, with the name you specify.

`Mkdir` *directory_name*

Argument	Description
<i>directory_name</i>	The name of the directory to create. Either use portable name syntax or the naming conventions appropriate for your particular operating system.

ModLogger

The `ModLogger` command modifies the current logger flag settings for Fscript.

`ModLogger` $+(logger_flags) | -(logger_flags)$

Argument	Description
$+(logger_flags)$	Turn on the logger flag settings given in the parentheses.
$-(logger_flags)$	Turn off the logger flag settings given in the parentheses.

To specify additional logging flags, use “+” followed by a set of logger settings in parentheses. To remove specific logging flags, use “-” followed by a set of logger settings in parentheses. The new logging flags apply to Fscript itself and any applications run from Fscript using the `Run` or `RunDistrib` commands.

The `ModLogger` command modifies the logger flags that were specified when Fscript started execution. The logger flags are first set either with the `-f1` flag on the `fscript` command or from the value of the `FORTE_LOGGER_SETUP` environment variable.

The modified logger settings are only applied to the first file specified in the original logger settings for Fscript.

For a detailed description of the logger flag syntax, see “[-F1 Flag \(iPlanet UDS Logger\)](#)” on page 177.

The following example shows possible uses of the `ModLogger` command:

```
Fscript> ModLogger +(trc:os:1:1 cfg:c4:2-3:1)
Fscript> ModLogger -(cfg:c4)
```

MoveServiceToPart

The `MoveServiceToPart` command moves the specified service object to the specified server partition.

```
MoveServiceToPart service_object_name [partition_name]
```

Argument	Description
<i>service_object_name</i>	The name of a service object in the current project to move to the partition. This is specified as a fully qualified name, that is, <i>project_name.service_object_name</i> .
<i>partition_name</i>	The name of a partition where the service object is to be moved.

You should specify the *service_object_name* as a fully-qualified name in the following format:

```
project_name.service_object_name
```

If you do not specify the *partition_name*, iPlanet UDS moves the service object to the current partition, as set by the `FindAppComp` command. You can identify the partition by using only the unique trailing portion of the partition name.

Before you can use the `MoveServiceToPart` command, you must generate the default configuration for the current application in the current environment using the `Partition` command.

You can invoke the `ShowApp` command to show the current partitioning for the current application in the current environment.

For information about the rules for moving service object between partitions, see *A Guide to the iPlanet UDS Workshops*.

If you want to move a service object out of a partition to a new partition, use the `NewPart` command, explained in [“NewPart” on page 105](#).

Mv

The `Mv` command renames a file in the local file system.

```
Mv old_file_name new_file_name
```

Argument	Description
<i>old_file_name</i>	The name of the file to rename.
<i>new_file_name</i>	The new name for the file.

Specify the two file names relative to the current working directory. The current working directory is either the directory in which `Fscript` was started or the last directory specified using the `Cd` command.

Specify the *old_file_name* and *new_file_name* arguments in local operating system format unless you gave the `UsePortable` command to specify files using the portable file format.

A file with the name *new_file_name* must not exist before you invoke the `Mv` command.

NewPart

The `NewPart` command creates a new partition in the current configuration, and moves a service object to the partition. The new partition becomes the current partition.

```
NewPart service_object_name
```

Argument	Description
<i>service_object_name</i>	The name of a service object in the current project to move to the newly created partition.

Before you can use the `NewPart` command, you need to generate the default configuration using the `Partition` command.

You can invoke the `ShowApp` command to show the current partitioning for the current application in the current environment.

To move a service object from one existing partition to another, use the `MoveServiceToPart` command (see [“MoveServiceToPart” on page 103](#)).

NewPlan

The `NewPlan` command creates a new plan in the workspace. A plan can be a project, application model, or business model. The new plan becomes the current plan.

```
NewPlan plan_type plan_name
```

Argument	Description
<i>plan_type</i>	The type of plan to create. Legal values are: <ul style="list-style-type: none">• <code>project</code> to create a new project• <code>ApplicationModel</code> to create a new application model• <code>BusinessModel</code> to create a new business model
<i>plan_name</i>	The name of the new plan to create. This name must be unique for all plans in the repository.

NOTE Plan names must be unique for all plans in the repository. When you add a new plan to the repository, other workspaces cannot see the contents of the plan until you integrate your workspace. In Fscript, you can use the `IntegrateWorkspace` command for your workspace to make the plan contents publicly available.

You can invoke a `NewPlan` command while running in a shadow repository that is detached from the central repository. When you attach to the central repository, however, you could get an error that indicates that the new plan name conflicts with a plan that was added while the shadow repository was detached, and the attachment is rejected. In that case, you must rename the new plan.

► **To rename a plan in the detached shadow repository**

1. Export the new plan to a file, by invoking the `ExportPlan` command.
2. Edit the export file to replace any references to the plan name with another name. The plan name may be in a number of places in the file, so be sure to check carefully that you have changed all references.
3. Remove the plan as a supplier from any other plans using the `RemoveSupplierPlan` command.
4. Remove the new plan from your shadow repository using the `ExcludePlan` command.
5. Import the edited plan definition by invoking the `ImportPlan` command.
6. Add the renamed plan back into the supplier plan lists of any affected plans, using the `FindPlan` and `AddSupplierPlan` commands.

invoke the `AttachToCentral` command to attach the shadow repository to the central repository and check for further name conflicts.

NewProj

The `NewProj` command creates a new project in the workspace. The new project becomes the current project.

```
NewProj project_name
```

Argument	Description
<i>project_name</i>	The name of the new project to create. This name must be unique for all plans in the repository.

NOTE Project names must be unique for all projects in the repository. When you add a new project to the repository, other workspaces cannot see the contents of the project until you integrate your workspace. In Fscript, you can use the `IntegrateWorkspace` command for your workspace to make the project contents publicly available.

You can invoke a `NewProj` command while running in a shadow repository that is detached from the central repository. When you attach to the central repository, however, you could get an error that indicates that the new project name conflicts with a project that was added while the shadow repository was detached, and the attachment is rejected. In that case, you must rename the new project.

► To rename a project in the detached shadow repository

1. Export the new project to a file, by invoking the `ExportPlan` command.
2. Edit the export file to replace any references to the project name with another name. The project name may be in a number of places in the file, so be sure to check carefully that you have changed all references.
3. Remove the project as a supplier from any other projects using the `RemoveSupplierPlan` command.
4. Remove the new project from your shadow repository using the `ExcludePlan` command.

5. Import the edited project definition by invoking the `ImportPlan` command.
6. Add the renamed project back into the supplier project lists of any affected projects, using the `FindPlan` and `AddSupplierPlan` commands.
7. Invoke the `AttachToCentral` command to attach the shadow repository to the central repository and check for further name conflicts.

NewWorkspace

The `NewWorkspace` command creates a new workspace in the current repository.

```
NewWorkspace workspace_name [initial_password [admin_password]]
```

Argument	Description
<code>workspace_name</code>	The name of the new workspace to create. This name must not be the name of an existing workspace in the current repository.
<code>initial_password</code>	The initial password for the workspace. If the current repository is a secure repository, you must specify an initial password. If the current repository is a standard repository, a workspace password is not required.
<code>admin_password</code>	The administrator password for the current repository. In a secure repository, you must specify the administrator password. In a standard repository, do not specify this password. This password is ignored if you specify it.

For example, to create a new workspace using the `Fscript` `NewWorkspace` command on a secure repository, specify the following command:

```
NewWorkspace PrivateWorkspace mysecret123 pwadmin8
```

Before you invoke the `NewWorkspace` command, you should close the current repository session using the `Close` command. iPlanet UDS automatically adds the new workspace to the repository and opens the new workspace in read-write mode.

The new workspace contains only the iPlanet UDS system libraries. You can invoke any number of `IncludePublicPlan` commands to add projects to your workspace.

Open

The `Open` command opens the current workspace on the current repository.

```
Open [readonly|readwrite|exclusivewriter|exclusive]  
[workspace_password]
```

Argument	Description
<code>readonly</code>	Open the current workspace in read-only mode. No changes to any aspects of the workspace will be allowed. If the workspace is being used, any number of people can open a workspace in read-only mode, but only one can open in read-write mode.
<code>readwrite</code>	The default, opens the current workspace in read-write mode, exclusively. If the workspace is being used concurrently in either read-write or read-only mode, the <code>Open</code> will fail. If you open in read-write mode, you can make changes to any parts of the workspace that are checked out.
<code>exclusivewriter</code>	Locks the entire repository against read-write access by any other users. If any users are currently using the repository in read-write mode, the <code>Open</code> command will fail.
<code>exclusive</code>	Locks the entire repository against all access by other users. If any other users are currently using the repository, the <code>Open</code> will fail.
<code>workspace_password</code>	If the workspace has a password, you must specify the correct password in the <code>Open</code> command. The only exception is that you do not have to use the workspace password to open a detached shadow repository in read-only mode.

► To open a workspace

1. Specify the current repository using the `SetRepos` command.
2. Specify the current workspace using the `SetWorkspace` command.
3. Enter the `Open` command.

The `Open` command opens the repository and workspace in the mode as specified with the command. By default, the `Open` command opens the workspace in read-write mode.

If you have already been working in a repository and workspace in this Fscript session, you must invoke the `close` command before invoking a new `open` command.

The current repository is set by one of the following, in order of precedence:

1. `SetRepos` command (see “[SetRepos](#)” on page 140)
2. `-fr` flag on the `fscript` command that started this Fscript session (see “[fscript Command](#)” on page 22)
3. environment variable `FORTE_REPOSNAME` (see *A Guide to the iPlanet UDS Workshops*)
4. default central repository called Central Repository

The current workspace is set by one of the following, in order of precedence:

1. `SetWorkspace` command (see “[SetWorkspace](#)” on page 144)
2. `-fw` flag on the `fscript` command that started this Fscript session (see “[fscript Command](#)” on page 22)
3. environment variable `FORTE_WORKSPACE` (see *A Guide to the iPlanet UDS Workshops*)
4. default workspace called FirstWorkspace

NOTE When you open a workspace, a lock is placed in the repository for the workspace, indicating that someone is using the workspace in either read-write or read-only mode. If a user has opened the workspace and established a read-write lock on it, then no other users can open the workspace in any mode. You cannot open a workspace in read-write mode if other users currently have the workspace open in read mode.

Partition

The `Partition` command produces a default configuration for the current project in the current environment. The current project must be the main project for an application or a library project.

```
Partition [1 | 3]
```

Argument	Description
1	<p>The default. Partitions an application or library project incrementally, changing only those things that invalidate an existing configuration—usually changes in source code.</p> <p>Adding a node to an environment does not necessarily invalidate the configuration for a library or application. To incorporate changes in an environment, you should use the more comprehensive partitioning function provided by option 3.</p>
3	<p>Comprehensively repartitions the current application or library project in the current environment, replacing any existing configuration.</p>

Before you can invoke the `Partition` command, you must invoke a `FindPlan` command to set the current project, and then invoke a `FindEnv` command or `FindActEnv` command to set the current environment.

The current project must be either:

- the main project for an application, with the project type set as a user application (1) or a server-only application (2) using the `SetProjType` command

If the current project is the main project for an application, you can specify the starting class and method for the project using the `SetProjStart` command.
- a library project, with the project type set as library (3) using the `SetProjType` command

All components in the current project must compile without errors (warnings are allowed) before you can successfully partition the application or library project.

The `Partition` command uses information about the service objects defined for each project in the application and the constraints and resources within the environment to generate the default configuration for the application within the environment.

After you have partitioned the application, you can change the default configuration by invoking the following Fscript commands:

- Use the `NewPart` and `MoveServiceToPart` commands to move service objects among partitions.
- Use the `AssignAppComp`, `UnassignAppComp` commands to assign partitions or library projects for installation on specific nodes.
- Use the `EnableAppComp` and `DisableAppComp` commands to specify which nodes automatically start their partitions.
- Use the `SetPartRepCount` command to change properties of the partitions.

PrintEnv

The `PrintEnv` command prints the current value of the specified environment variable.

```
PrintEnv variable_name
```

Argument	Description
<i>variable_name</i>	The name of an environment variable.

The *variable_name* argument specifies the environment variable name.

Pwd

The `Pwd` command prints the name of the current working directory.

```
Pwd
```

The current working directory is either the directory in which Fscript was started or the last directory specified using the `Cd` command.

Quit

To leave Fscript, use the `Quit` command.

```
Quit
```

This command will prompt you before allowing you to leave without saving changes. To commit any outstanding changes, you must use the `Commit` command before using the `Quit` command.

The `Exit` command and the `Quit` command are synonyms.

ReadIntoFile

The `ReadIntoFile` command reads subsequent lines and writes them to the specified file until Fscript encounters the terminating string.

```
ReadIntoFile file_name [term_str]
```

Argument	Description
<i>file_name</i>	The file into which to write the text. This file name is in local format. Fscript creates a new file by this name in the current working directory and writes the data into the file as lines.
<i>term_str</i>	The string that terminates the data. The default value is <code>“!!”</code> . The terminating string must begin on a new line.

The data being read must begin on a new line following the line containing the `ReadIntoFile` command. The data does not need any additional punctuation to be read correctly. Fscript does not display the `“fscript>”` prompt until you enter the terminating characters.

For example, could contain the following lines:

```
The main project has been updated.  
No errors occurred.  
!!
```

RemoveAlias

The `RemoveAlias` command removes the specified alias expansion mapping. An *alias* is a synonym you can make for an Fscript command and its arguments using the `AddAlias` command.

```
RemoveAlias [alias_name]
```

Argument	Description
<i>alias_name</i>	The name of the alias expansion mapping to be removed.

If *alias_name* is not specified, then `RemoveAlias` removes all alias mappings.

You can see a list of all available aliases using the `ShowAlias` command.

RemoveConf

The `RemoveConf` command removes the specified configuration for the current project.

```
RemoveConf [configuration_name]
```

Argument	Description
<i>configuration_name</i>	The name of the configuration to remove.

The *configuration_name* is the name of the environment for which this configuration was defined. You can create a configuration by invoking the `Partition` command, which uses the current project and the current environment. You can create a different configuration for the current project for each possible environment.

If you do not specify a *configuration_name*, iPlanet UDS removes the current configuration.

► **To set the current configuration**

1. Use the `FindPlan` command to set the current project, which should be the main project for the application or the library project associated with the configuration you want to remove.
2. Use the `FindEnv` or `FindActEnv` commands to set the current environment, which should be the environment associated with the configuration you want to remove.

You can use the `ShowPlan` command to list the names of the configurations available for the current project. The configurations have the same names as their environments.

RemoveComp

The `RemoveComp` command removes the specified project component from the current project.

```
RemoveComp component_name
```

Argument	Description
<i>component_name</i>	The name of a component in the current project to be removed.

The specified *component_name* is a class, constant, service object, interface, or cursor defined in the current project, as specified by the `FindPlan` command.

If the component has been integrated, you must check out the component to your workspace, using the `CheckoutComp` or `CheckoutAllComps` commands before you can invoke the `RemoveComp` command. If the component is newly created in your workspace, you do not need to check out the component before using the `RemoveComp` command.

Until you invoke an `IntegrateWorkspace` command, you can undo the removal of a checked out component by invoking the `UndoRemoveComp` command.

RemoveFile

The `RemoveFile` command deletes the specified file in the local file system.

```
RemoveFile file_name
```

Argument	Description
<i>file_name</i>	The name of the file to remove.

The `RemoveFile` command removes a file in the local file system. The *file_name* is specified relative to the current working directory. The current working directory is either the directory in which Fscript was started or the last directory specified using the `Cd` command.

The `RemoveFile` command and the `Rm` command are synonyms.

RemoveProjFromLib

The `RemoveProjFromLib` command removes the specified project from the current library configuration.

```
RemoveProjFromLib project_name
```

Argument	Description
<i>project_name</i>	The name of the project to remove from the current library configuration.

You can only use the `RemoveProjFromLib` command when the current configuration is a library configuration.

For information about setting the current library configuration or creating a new library configuration, see [“AddProjToLib” on page 48](#).

RemovePublicPlan

The `RemovePublicPlan` command removes the specified public plan from the repository. A public plan can be a project, an application model, or a business model.

```
RemovePublicPlan plan_name
```

Argument	Description
<i>plan_name</i>	The name of the public plan to remove from the repository.

Before you can remove a public plan from a repository, you need to make sure that the plan is not included in any workspace and is not a supplier plan to any other plan.

► To remove an integrated plan from the repository

1. Exclude the plan from all workspaces that include it, using the `ExcludePlan` command (see [“ExcludePlan” on page 68](#)).
2. Use the `RemovePublicPlan` command to remove the plan from the current repository.

`RemovePublicPlan` automatically commits changes to the repository after it removes the plan.

RemoveSupplierPlan

The `RemoveSupplierPlan` command removes a plan from the list of supplier plans for the current plan. A supplier plan can be a project, an application model, or a business model.

```
RemoveSupplierPlan plan_name
```

Argument	Description
<i>plan_name</i>	The name of the plan to remove from the supplier list. This must be the name of a plan included as a supplier to the current plan.

Once you have invoked the `RemoveSupplierPlan` command, any references to components of that plan will cause compilation errors.

RemoveWorkspace

The `RemoveWorkspace` command removes a workspace from the current repository.

```
RemoveWorkspace workspace_name [workspace_password]
```

Argument	Description
<i>workspace_name</i>	The name of the workspace to delete. This name must be the name of an existing workspace in the current repository.
<i>workspace_password</i>	If the workspace has a password, you must specify it in the <code>RemoveWorkspace</code> command.

Before you invoke the `RemoveWorkspace` command, make sure that *no* components are checked out to this workspace, and that no other developers have the workspace open (not even in read-only mode).

The `RemoveWorkspace` command always prompts for verification, even if you are running from a command script. You can include a single “y” in your command script to answer the prompt without stopping the running script, as shown:

```
...
RemoveWorkspace oldWorkspace myPassword
Y
...
```

The `RemoveWorkspace` command deletes any projects that have been created in that workspace but never integrated.

The `RemoveWorkspace` command commits the changes it makes in the workspace to the central repository. This command discards any changes in branched components or project definitions that have not yet been integrated from this workspace.

RenameComp

The `RenameComp` command renames the specified project component in the current project.

```
RenameComp old_name new_name
```

Argument	Description
<i>old_name</i>	The name of an existing component in the current project to rename.
<i>new_name</i>	The new name to be given the component.

The specified *old_name* is the name of a class, constant, service object, interface, or cursor defined in the current project, as specified by the `FindPlan` command.

Because component names must be unique within a project, no components in the current project can have the name you specify as *new_name*.

After you rename the component, you must find and rename all references to this component in the method source code, cursor text, or virtual attribute expressions in your source code. References in other contexts to the component automatically reflect the new name.

Repeat

The `Repeat` command repeats the next command the specified number of times.

```
Repeat rep_count
```

Argument	Description
<i>rep_count</i>	The number of times you want the next command to be repeated.

You can use the `Repeat` command in a script to repeat an `Fscript` command. For example, you might want to repeat an `Include` command that runs a script a specified number of times.

RevertProj

The `RevertProj` command removes all changes made to the current project in the current workspace since the last time this workspace was integrated.

```
RevertProj
```

The `RevertProj` command reverses changes you made to the project since the last time you integrated the workspace using the `IntegrateWorkspace` command. The project is now the same as it was in the system baseline the last time you updated the workspace using the `UpdateWorkspace` command.

The `RevertProj` command releases any checkout locks you have on project components in this workspace.

Rm

The `Rm` command deletes the specified file in the local file system. The *file_name* is specified relative to the current working directory.

```
Rm file_name
```

Argument	Description
<i>file_name</i>	The name of the file to remove.

The `RemoveFile` command and the `Rm` command are synonyms.

Run

The `Run` command runs the current application in test mode using the starting class and method for the current project.

```
Run [arguments]
```

Argument	Description
<i>arguments</i>	Command-line arguments to be passed to the client partition.

Before you can run the application using the `Run` command, you need to set the current application using the `FindPlan` command to set the main project of the application as the current plan. You also need to set the starting class and method for the main project of the application using the `SetProjStart` command.

You can invoke the `Run` command to test the current application before partitioning the application. The `Run` command tries to run as much of the current application as possible in the client partition for the application. Even references to service objects that are declared with visibility of environment are run in the client partition, even though these service objects can only run on server partitions when deployed.

If the application needs to use projects or service objects that are not available in the client partition, such as for database access, the `Run` command partitions only those portions of the application into servers on other systems. If your application contains such service objects, you cannot run `Fscript` as a stand-alone utility (with the `-fs` flag specified). You must be connected to the name server and the network.

To run an application with the real partitioning behavior, you must partition the application, perhaps using the `Partition` command, then run the application using the `RunDistrib` command.

If you want to test part of an application that does not have a starting class and method, for example, a project containing only services, you can use the `RunFile` command to specify startup code for the project.

NOTE You cannot use the `Run` command when an application model or business model is the current plan.

➤ **To test an application generated from an application model**

1. Make an application model the current plan using `FindPlan`.
2. Generate the application code for the application model using `CompilePlan`.
3. Make the main project of the generated application the current plan using `FindPlan`. The main project of the generated application is named *application_model_nameClient*.
4. Use the `Run` command to test run the generated application.

To test the generated application in distributed mode, partition the application with the `Partition` command, then use the `RunDistrib` command.

RunDistrib

The `RunDistrib` command runs the current project as a distributed application within the current configuration.

```
RunDistrib [arguments]
```

Argument	Description
<i>arguments</i>	Command-line arguments to be passed to the client partition.

The `RunDistrib` command automatically starts servers, sends partitions across the network, and does everything required to test the distributed execution of an application.

► To use the `RunDistrib` command for the first time for an application

1. Set the main project for the application as the current project by using the `FindPlan` or `NewProj` command.
2. Make sure that you have set a starting class and method (with no parameters) as a starting point for the current project. Use the `SetProjStart` command if necessary.
3. Partition the current application using the `Partition` command.
4. Use the `RunDistrib` command to run a test for the configuration of the application.

Before you use the `RunDistrib` command, you should use the `Run` or `RunFile` commands to test for basic errors. The `Run` and `RunFile` commands let you test the project without running in a distributed environment. Running your application entirely as a client partition is generally a much faster and more flexible way to debug the basic logic of your application.

If other Fscript sessions have invoked the `TestApp` command so that they can participate in testing the client partitions of the application, the `RunDistrib` command sends the client partition to those Fscript sessions. For information about setting up client partitions for testing, see [“TestApp” on page 155](#).

After the `RunDistrib` command completes execution of the client portion of an application and returns to the Fscript command prompt, the remote partitions for the application are still running. The remote partitions do not automatically shut down when the client shuts down because the remote partitions are often set up to be shared among client partitions.

Leaving the remote servers running is useful, because you can execute the `RunDistrib` command several times to test the logic of a client attaching to the running server.

To stop these remote server partitions, use the `StopRemoteParts` command described in “[StopRemoteParts](#)” on page 154.

RunFile

The `RunFile` command executes the TOOL code fragment contained in the specified file.

```
RunFile file_name
```

Argument	Description
<i>file_name</i>	The name of a file containing a block of TOOL commands.

The `RunFile` command can run parts of an application in test mode, and cannot test application partitioning. To run a project with partitioning, use the `RunDistrib` command.

The *file_name* argument you specify for the `RunFile` command should contain a block of TOOL code. iPlanet UDS compiles and executes this block of TOOL code directly. iPlanet UDS runs this block of code within the context of the current project, so you can reference components of the current project and its supplier projects within the TOOL code fragment.

The *file_name* should be specified in local operating system format, unless you have previously invoked the `UsePortable` command. The `RunFile` command uses the current directory search path, as specified with the `SetPath` and `AddPath` commands.

The following example shows the content of a file that the `RunFile` command could use:

```
io : BasicIO = new;
a : artist = new;
a.PromptForInput(io);
a.WriteToLog();
```

Save

The `Save` command saves the current changes in your workspace to the attached shadow repository. This command lets you save the changes in your workspace without committing the changes to the central repository.

If you are not using any shadow repository, the `Save` command commits changes directly to the central repository.

`Save`

The `Save` command lets you save your workspace changes without interacting with the central repository. To commit your changes to the central repository when using an attached shadow repository, you must use the `Commit` command (described in [“Commit” on page 59](#)).

Using the `Save` command for incremental changes can improve repository performance, because the central repository can handle a larger number of users and the performance for each user is improved. The disadvantage to using the `Save` command is that you can lose the changes you make in your workspace if your shadow repository is lost before you commit your changes to the repository.

ScmExportComponent

The `SCMExportComponent` command exports the component definition for the specified component to files named *componentname.cdf*, *componentname.cex*, and *componentname.fsw* based on the component’s type.

Component type	Exported files
Window class	<i>componentname.cdf</i> <i>componentname.cex</i> <i>componentname.fsw</i>
Non-interface class	<i>componentname.cdf</i> <i>componentname.cex</i>
All other components, including interfaces	<i>componentname.cdf</i>

`ScmExportComponent` *componentname* *directory*

Argument	Description
<i>componentname</i>	The name of the component that is being exported.
<i>directory</i>	The name of the directory to which the component is being exported.

ScmExportProject

The `ScmExportProject` command exports the project definition for the current project to a file named *projectname.prx* in the specified directory. Using the optional `all` argument exports all of the project's components into the specified directory.

`ScmExportProject` *directory* [`all`]

Argument	Description
<i>directory</i>	The name of the directory to which the project definition file is being exported.
<code>all</code>	Exports all files dependent upon the project to the specified directory (optional).

The *projectname.prx* file contains `#include` statements for all component definition files. This means that you cannot import a project export file unless all of the included component definition files are present. You can either export the components individually using the `ScmExportComponent` command or all at once using the `all` argument.

CAUTION When exporting projects using the `all` argument, it is strongly recommended that you export each project to its own directory. If you export two projects to the same directory and both projects have a class or component with the same name but different implementations, the last class exported will overwrite the previously exported class.

Script

The `Script` command captures Fscript commands entered by the interactive user and writes them into the specified file.

```
Script file_name
```

Argument	Description
<i>file_name</i>	The name of an operating system file.

The `Script` command tells Fscript to start writing all Fscript commands entered by the user into a separate file. You can use the `Script` command to capture a session of Fscript commands that you can later edit or replay using the `Include` command.

The *file_name* argument is specified in local operating system format, by default. If you invoke the `UsePortable` command, however, the *file_name* must be specified in portable file format.

SearchFile

The `SearchFile` command prints lines of the specified file that contain the *searchText* text string into standard output.

```
SearchFile file_name searchText [replaceText] [showLineNumbers]
```

Argument	Description
<i>file_name</i>	The name of an operating system file.
<i>searchText</i>	The text string that is being searched for, enclosed in single quotes.
<i>replaceText</i>	The text string that is supposed to replace the <i>searchText</i> , enclosed in single quotes.
<i>showLineNumbers</i>	Flag that specifies TRUE to show the number for each printed line within the file or FALSE to show no numbers.

The *file_name* is specified relative to the current working directory. The current working directory is either the directory in which Fscript was started or the last directory specified using the `cd` command.

Specify *searchText* in single quotation marks.

Specify *replaceText* in single quotation marks. When *replaceText* is specified, `SearchFile` replaces the occurrences of *searchText* with *replaceText* before printing the lines from the file.

showLineNumbers can be 1 or 0. 1 means that line numbers will be printed with the lines containing *searchText*. The default is 0.

SetAppCompCompiled

The `SetAppCompCompiled` command indicates whether or not the specified component from the current application or library configuration should be used in compiled form on the specified node.

```
SetAppCompCompiled node_name compiled_flag [component_name] [C++_library]
```

Argument	Description
<i>node_name</i>	The name of the node where the component will be installed.
<i>compiled_flag</i>	Flag that specifies whether or not the component will be compiled.
<i>component_name</i>	The name of the component. By default, the component is the current component.
<i>C++_library</i>	Flag that specifies whether or not a C++ library will be generated for this component. By default, the value is 0.

The *node_name* argument is the name of the node where the component will be installed.

The *compiled_flag* argument specifies whether or not the component will be compiled. This value can be:

Value	Description
0	(the default) installs the interpreted version of the component
1	installs the compiled version of the component

If you do not specify that this component be installed as compiled, then the component is installed as interpreted.

The *component_name* is the name of the component for which you are specifying whether the component will be compiled. By default, the *component_name* is the name of the current component.

The *C++_library* flag specifies whether or not to generate a C++ library for the specified component. This value can be:

Value	Description
0	(the default) does not generate a C++ library
1	generates a C++ library

For information about writing C++ applications that use the generated C++ library to access this iPlanet UDS component, see *Integrating with External Systems*.

If you define a library or partition, you need to compile this application component as part of deploying it. You can compile the library or partition using the auto-compile argument of the Fscript `MakeAppDistrib` command or using the iPlanet UDS `fcompile` command. The `MakeAppDistrib` command is described in [“MakeAppDistrib” on page 98](#). Using the `fcompile` command for compiling partitions and libraries is described in *A Guide to the iPlanet UDS Workshops*.

SetAppID

The `SetAppID` command allows you to specify an identifier for the current library project. The identifier is then used by the system to generate names for files associated with compiled libraries. This command overrides the default naming convention, described below.

```
SetAppID application_id
```

Argument	Description
<i>application_id</i>	The name to use as an identifier for the current library project.

By default, iPlanet UDS uses the first eight characters of a library project name to generate a unique identifier, which is used to build the name for the library generation file (.lgf file), C++ wrapper file names, and the compiled library name.

Use this command to override the default naming scheme and provide your own identifier. Because iPlanet UDS places all compiled libraries in a single userlib directory, unique name must be generated to avoid name collision. Overriding the default generated name allows you to specify meaningful names for compiled libraries.

SetAppletFlag

The `SetAppletFlag` command defines the client application associated with a logical client partition as an applet.

```
SetAppletFlag 0 | 1
```

Argument	Description
0 1	Specifies whether a client partition is an applet or not. By default, the client partition is not an applet (0). To define a client partition as an applet, specify 1.

An *applet* is an application that is intended to be started only by another application. An application can start an application or applet using the `LaunchMgr.RunApplet` method.

Before you can invoke the `SetAppletFlag` command, you need to identify an application and select the client partition as the current component, as shown in the following example:

```
fscript> FindPlan Banking
fscript> FindActEnv
fscript> FindAppComp Client
fscript> SetAppletFlag 1
```

For more information about writing applications that use applets, see *iPlanet UDS Programming Guide*. For information about the `LaunchMgr.RunApplet` method, see the `AppletSupport` library in the iPlanet UDS online Help.

SetDefault

The `SetDefault` command calls the operating system to change the current working directory.

```
SetDefault directory_name
```

Argument	Description
<i>directory_name</i>	The name of the directory to which you want to change the current working directory.

By default, the *directory_name* should be specified in local operating system format. However, if you have previously invoked the `UsePortable` command, the *directory_name* should be specified in portable file name format. You can embed special syntax in the *directory_name* to have environment variable expansion performed on the specified name. See [“SetPath” on page 135](#) for more details.

The `Cd` command and the `SetDefault` command are synonyms.

SetEnv

The `SetEnv` command sets an environment variable to a specified value.

```
SetEnv variable_name [value]
```

Argument	Description
<i>variable_name</i>	The name of the environment variable whose value you want to set
<i>value</i>	The value that you want to use to set the environment variable.

The *variable_name* is the name of the environment variable you want to set. The variable setting is available in this session of Fscript, as well as to any applications or scripts you might start in Fscript.

On UNIX, VMS, and Windows NT, the variable disappears from the environment when Fscript finishes executing.

The *value* sets the value you want to assign to the environment variable. If you do not specify *value*, the environment variable is set to NIL.

SetOutFile

The `SetOutFile` command sets the specified file as the output file.

```
SetOutFile [file_name]
```

Argument	Description
<i>file_name</i>	The simple name of a file to be specified as the output file.

The *file_name* is specified relative to the current working directory. The current working directory is either the directory in which Fscript was started or the last directory specified using the `cd` command.

If you do not specify *file_name*, then the output file is reset to “%stdout.”

SetPartArgs

The `SetPartArgs` command sets the argument string that will be passed to the specified assigned partition on a particular node when it is started.

```
SetPartArgs node_name arguments [partition_name]
```

Argument	Description
<i>node_name</i>	The name of the node on which a partition is assigned.
<i>arguments</i>	The command line arguments to send to the partition when started.
<i>partition_name</i>	The name of a partition in the current configuration.

You can use the `SetPartArgs` command to specify startup command line flags for a partition on a specific node. The command operates on the current configuration of the application.

► To specify the current configuration

1. Set the main project for the application as the current project using the `FindPlan` command.
2. Set the current environment using the `FindEnv` or `FindActEnv` commands.

If you have not yet partitioned the application in the current environment, you must invoke the `Partition` command before using the `SetPartArgs` command.

The `node_name` argument specifies one of the nodes to which you have assigned the partition, either by default with the `Partition` command, or deliberately with the `AssignAppComp` command.

The `arguments` argument specifies a set of command line arguments to send to the partition when it first starts up. These are given as UNIX-style command line arguments on all systems, using the `"-"` to designate the argument, and then the value. You should enclose the set of arguments in double quotation marks.

On all platforms, the `-fm` flag arguments need to be enclosed in quotation marks when they include embedded spaces, as shown:

```
Fscript> SetPartArgs myserver "-fm (n:4000, x:8000)"
```

If the `-fm` flag arguments do not contain spaces in that flag, as shown in the following example, you can simply specify double quotes around the entire flag:

```
Fscript> FindPlan Acctg
Fscript> FindActEnv
Fscript> Partition
Fscript> FindAppComp AcctMgr
Fscript> SetPartArgs myserver "-fm(n:4000,x:8000)"
Fscript> Commit
```

On UNIX platforms, you need to enclose all arguments that contain parentheses or spaces in quotation marks so that the operating system can parse the flags correctly, as shown in the following example:

```
SetPartArgs Server1 '-fl "%stdout(trc:user) trc1_3.log(trc:user1)''
```

For explanations of the `-fl` and `-fm` flags, see [Appendix B, "Memory and Logger Flags."](#)

The optional argument `partition_name` specifies a partition other than the current partition. If this argument is not specified, the `SetPartArgs` command operates on the current partition, which you set using the `FindAppComp` command

SetPartRepCount

The `SetPartRepCount` command sets the replication count for the specified partition on a specified node.

```
SetPartRepCount node_name replication_count [partition_name]
```

Argument	Description
<i>node_name</i>	The name of the node on which a partition is assigned.
<i>replication_count</i>	The new replication count for automatically starting up servers for the partition.
<i>partition_name</i>	The name of a replicated partition within the current application.

The replication count indicates the number of instances of the partition will automatically be started on a particular node.

► To specify the current configuration

1. Set the main project for the application as the current project using the `FindPlan` command.
2. Set the current environment using the `FindEnv` or `FindActEnv` commands.

If you have not yet partitioned the project in the current environment, you must invoke the `Partition` command before using the `SetPartArgs` command.

The *node_name* argument specifies one of the nodes to which you have assigned the partition, either by default with the `Partition` command, or deliberately with the `AssignAppComp` command.

The *replication_count* specifies the number of replicates of the partition that you want iPlanet UDS to automatically start on the specified node.

The optional argument *partition_name* specifies a partition other than the current partition. If this argument is not specified, the `SetPartRepCount` command operates on the current partition, which you set using the `FindAppComp` command

When you create a partition that contains a replicated service object, either for failover or for load balancing, you can specify a replication count for the partition. iPlanet UDS uses the replication count to determine how many replicates of the partition to automatically start when your application needs the services provided by the partition. You can only set the replication count for partitions that contain replicated service objects.

SetPassword

The `SetPassword` command sets the master, administrator, baseline, or workspace passwords for the current repository or current workspace.

```
SetPassword password_type new_password [current_password]
```

Argument	Description
<i>password_type</i>	The type of password you are setting.
<i>new_password</i>	The new password you are setting for the repository or workspace.
<i>current_password</i>	The current password for the repository or workspace.

The *password_type* argument specifies whether the kind of password you are setting for your current repository or for your workspace. You can set the current repository using the `SetRepos` command. You can set the current workspace using the `SetWorkspace` command.

password_type can have one of the following values:

<i>password_type</i> value	Description
admin	For a secure repository, sets a password for creating workspaces and copying the repository. You cannot set this password for a standard repository.
baseline	Sets a password for integrating a workspace into the system baseline in the current repository.
master	Sets a master password for the repository, which allows complete access to the repository.
workspace	Sets a password for accessing the current workspace.

The *new_password* argument specifies the new password for the repository or workspace. A legal password is a string of 7-bit ASCII characters, of any length with no spaces. In a secure repository, a non-null password is required. In a standard repository, you can remove a password by specifying a null string, as shown in the following example:

```
SetPassword workspace '' secretpassword
```

The *current_password* argument specifies the current password that is being replaced by the new password. If a password is being set for the first time, then this value is not required.

If you want to set the administrator password for a repository that is a standard repository, you need to convert the repository to a secure repository using the `rpcopy` command, as described in *iPlanet UDS System Management Guide*.

SetPath

The `SetPath` command sets the directory search path used by any of the commands that take a file name as an argument.

```
SetPath directory_name [ ; directory_name . . . ]
```

Argument	Description
<i>directory_name</i>	The name of a directory (or set of directories) in which to look for files which are specified without a path.

The `SetPath` command resets the entire directory search path. To add more directories to a directory search path, you can use the `AddPath` command.

Most of the commands that have input file arguments, such as the `Include` command, allow you to specify the name of the input file without a full directory specification. In that case, the commands use the current directory search path, as defined by the `SetPath` and `AddPath` commands, to find the file. The directory search path provides a set of directories that are checked in turn until a file matching the name is found.

By default, the directory search path only includes the current working directory. The current working directory is always considered the last directory in the directory search path, even after you give the `SetPath` command. If you want the current working directory to be searched first, you can specify the current working directory first in the list of directories for the `SetPath` command.

Each *directory_name* is a full directory path name. By default, directories should be specified in the local operating system directory format. If you have previously invoked the `UsePortable` command, then you should specify the *directory_name* in iPlanet UDS portable format, which is a UNIX-style directory format. To specify more than one directory, separate the directory names with semicolons.

You can embed environment variable names within the directory names, by using the syntax:

```
${environment_variable_name}
```

The dollar sign and braces indicate that the name inside the braces is an environment variable, and the entire specification is replaced with the current setting of the environment variable.

You can also use the following specification to expand the environment variable name and convert it to a portable file format as well:

```
%{environment_variable_name}
```

The percent sign and braces indicate that the name inside the braces is an environment variable, and the entire specification is replaced with the current setting of the environment variable. This syntax is useful when you have directories specified in environment variables in local format and need to convert them to portable format.

The `SetPath` command and `SetSearchPath` command are synonyms.

Sample uses of the `SetPath` command are:

```
Fscript> SetPath /mydisk/mydir;${ENV_VAR}/subdir
Fscript> SetPath c:\mydir;${ENV_VAR}\subdir
Fscript> SetPath "Mac HD:Apps:TempFolder";${ENV_VAR}:Sub
Fscript> SetPath $dka0:[path];${ENV_VAR}:[otherdisk.otherdir]
Fscript> UsePortable
Fscript> SetPath %{FORTE_ROOT}/install/examples
```


SetPrefNode

The `SetPrefNode` command designates the preferred server node to be used in a subsequent `Partition` command.

```
SetPrefNode node_name
```

Argument	Description
<i>node_name</i>	The name of a server node in the environment to use as the preferred server when partitioning.

The `SetPrefNode` command tells the partitioning system where unrestricted application partitions or library projects are to be placed when you invoke a `Partition` command. If you do not use the `SetPrefNode` command, the `Partition` command assigns partitions and library projects to default nodes.

The `SetPrefNode` command sets the preferred node only for the partitioning of a single library project or application in a single environment. This preferred node information is not valid for other library projects, applications, or environments.

SetProjRestricted

The `SetProjRestricted` command defines the current project as a restricted project.

```
SetProjRestricted restricted_flag
```

Argument	Description
<i>restricted_flag</i>	Set to a value of 0 for unrestricted projects or a value of 1 for restricted projects.

Before you can use this command, you must set the current project, using either the `FindPlan` or `NewProj` command.

Restricted projects are projects that can be run only on certain nodes in the environment. These restricted projects include projects like `C`, `DCE`, or `ObjectBroker` projects that can only be installed on certain nodes in the environment.

If you are using the `ImportPlan` command to import a project definition statement, you can also set the `restricted` attribute on the `has properties` clause for the `begin TOOL` statement. The `begin TOOL` statement is described in *TOOL Reference Guide*.

NOTE If methods within the project perform an operation on classes that come from restricted supplier projects, including instantiating the classes, but you do not set the *restricted_flag* argument for a project to 1, you will get an error when you try to compile the TOOL code.

To create a non-restricted project that references a class in a restricted project, you can create service objects that instantiate the classes and handle all interactions with classes of the restricted project. For more information about creating non-restricted projects that reference C, DCE, or ObjectBroker restricted projects, see *Integrating with External Systems*.

SetProjStart

The `SetProjStart` command specifies the starting class and method for the current project that are used by subsequent `Run` or `RunDistrib` commands.

```
SetProjStart class_name method_name
```

Argument	Description
<i>class_name</i>	The name of a class in the current project. An object of this class is allocated when you invoke the <code>Run</code> or <code>RunDistrib</code> command, and the <i>method_name</i> is invoked on this object.
<i>method_name</i>	The name of a method defined for <i>class_name</i> . This method must already be defined for the class, and cannot have any parameters defined for it.

Before you can use the `SetProjStart` command, you must have a current project, set by invoking either the `FindPlan` or `NewProj` command.

When you use a `Run` or `RunDistrib` command, iPlanet UDS looks up the class and method defined for the current project, instantiates an object of the starting class, and invokes the starting method on that object.

The method specified as the starting method cannot have parameters defined for it. If you try to specify a starting method that has parameters, you get an error. You should not later change the method to add parameters.

If you are using the `ImportPlan` command to import a project definition, you can also set the starting class and method for the project on the `has properties` clause for the `begin TOOL` statement. The `begin TOOL` statement is described in *TOOL Reference Guide*.

SetProjType

The `SetProjType` command defines the purpose of the current project as one of the following: the main project for a user application, the main project for a server application, or a library project.

```
SetProjType type_flag
```

Argument	Description
<i>type_flag</i>	The purpose of the current project, specified as 1 for user applications, 2 for server-only applications, and 3 for libraries.

This setting is used when you later partition an application or library project using the `Partition` command.

Before you can use the `SetProjType` command, you must have a current project, set by invoking either the `FindPlan` or `NewProj` command.

The *type_flag* argument values are described in the following table:

<i>type_flag</i> value	Description
1	The default. The project is defined as the main project for a user application, which will have a client partition.
2	The project is defined as the main project for a server-only application, which will <i>not</i> have a client partition.
3	The project is defined as a library project.

You might want to designate a server-only project when your application contains only service objects that will be used by other applications. However, because you often need a client partition for testing the server, you can use a user application type project for creating and installing a service partition that is to be shared between applications. See the “[ListServiceApps](#)” on page 95 for a discussion of sharing service partitions between applications.

SetRepos

The `SetRepos` command specifies the name of the current repository.

```
SetRepos repository_name
```

Argument	Description
<code>repository_name</code>	The name of the repository, specified as a full repository specification. This repository can be a central repository, a private repository, or a shadow repository.

The `SetRepos` command overrides any setting for the repository from the `-fr` flag on the `fscript` command line. You can invoke the `SetRepos` command before the first `Open` command in `Fscript`. For more information about specifying a repository, see “[Specifying a Repository](#)” on page 25.

- **To open a session on another repository and workspace**
 1. Close the current repository session with the `Close` command.
 2. Change the current repository with the `SetRepos` command.
 3. Change the current workspace with the `SetWorkspace` command.
 4. Open the workspace with the `Open` command.

As an example, you could invoke the following set of commands to set and open a B-tree repository.

```
Fscript> Close
Fscript> SetRepos bt:myrepos
Fscript> SetWorkspace jimmy
Fscript> Open
```

SetSearchPath

The `SetSearchPath` command sets the directory search path used by any of the commands that take a file name as an argument.

```
SetSearchPath directory_name [ ; directory_name . . . ]
```

Argument	Description
<i>directory_name</i>	The name of a directory (or set of directories) in which to look for files which are specified without a path.

The `SetSearchPath` command resets the entire directory search path.

By default, the directory search path only includes the current working directory. The current working directory is always considered the last directory in the directory search path, even after you give the `SetSearchPath` command. If you want the current working directory to be searched first, you can specify the current working directory first in the list of directories for the `SetSearchPath` command.

Each *directory_name* is a full directory path name. By default, directories should be specified in the local operating system directory format. If you have previously invoked the `UsePortable` command, then you should specify the *directory_name* in iPlanet UDS portable format, which is a UNIX-style directory format. To specify more than one directory, separate the directory names with semicolons.

You can include environment variable names in the directory names. This task is described in [“SetPath” on page 135](#).

The `SetPath` command and `SetSearchPath` command are synonyms.

SetServiceEOSInfo

The `SetServiceEOSInfo` command tells iPlanet UDS to generate the files that make the specified service object available to a specified external object service (EOS). iPlanet UDS generates these files when you make the distribution, using either the `MakeAppDistrib` command, or by using the `Make Distribution` command in the Partition Workshop.

```
SetServiceEOSInfo service_object_name EOS_Type [export_name]
```

Argument	Description
<i>service_object_name</i>	The name of the service object that you want to make available to the external object service.
<i>EOS_Type</i>	The identifier for the type of external object service.
<i>export_name</i>	The name used by the external object service to identify this service object.

The *service_object_name* argument specifies the name of the service object that you want to make available to the external object service. If the current project contains the service object, you can specify just the name of the service object; otherwise, *service_object_name* should specify the project name and the service object name, as shown in the following example:

```
Fscript> SetServiceEOSInfo Appl_Main.External_SO OBB App1Serv
```

In this example, `App1_Main` is the name of the project, and `External_SO` is the name of the service object.

The *EOS_Type* argument specifies the identifier for the type of external object service that you want to make the service object available to. You can specify the following values:

<i>EOS_Type</i> Value	Description
DCE	OSF's Distributed Computing Environment
Enc	Transarc's Encina
OBB	ObjectBroker, produced by Digital Equipment Corporation
OLE	Microsoft's OLE
XML	XML server implementing the Simple Object Access Protocol (SOAP)
none	Cancels any previously specified external object service.

The *export_name* argument specifies the name to be used by the external object service to identify this service object. If no export name is specified, the default server name is built from the project name and the service object name, using either an underscore character (_) to separate the project name and the service object name. For XML external services, the default *export_name* contains a "urn:" prefix to define a namespace, and uses the hyphen character (-) to separate the generated project name and service object name.

For more information about making service objects available to DCE, Encina, ObjectBroker, OLE, or SOAP clients, see *Integrating with External Systems*.

SetServiceEOSAttr

The `SetServiceEOSAttr` command sets service object attributes for service objects exported as XML servers using the `SetServiceEOSInfo` command. `SetServiceEOSAttr` cannot be used with any other external object service.

```
SetServiceEOSAttr service_object_name attr_name [attr_value]
```

Argument	Description
<i>service_object_name</i>	The name of the XML service for which you are setting attributes.
<i>attr_name</i>	The attribute of the XML service that you are setting.
<i>attr_value</i>	The value for the named attribute. If not specified, the default value for the attribute is used.

Table 2-2 XML Server Attribute Names and Default Values

Attribute	Default Value	Description
Protocol Type	SOAP	Currently, only SOAP is supported.
Export Name	<i>urn:ProjectName-ServiceObjectName</i>	The "urn:" prefix helps define a unique namespace for the XML server. The default value is derived from the project name and service object name.
Transport	HTTP	Transport can be either HTTP or SSL.
Host	localhost	Can be any fully qualified domain name.
Port	9090 9443	Default value depends on the value for the Transport attribute. 9090 is the default value for HTTP; 9443 is the default value for SSL.

SetWorkspace

The `SetWorkspace` command sets the current workspace in the current repository that will be opened by the next `Open` command.

```
SetWorkspace workspace_name
```

Argument	Description
<i>workspace_name</i>	The workspace name to be used on the next <code>Open</code> command.

The `SetWorkspace` command overrides any setting for the workspace from the `-fw` flag on the `fscript` command line or from the `FORTE_WORKSPACE` environment variable. You can invoke the `SetRepos` command before the first `Open` command in `Fscript`.

► **To open another repository and workspace**

1. Invoke a `Close` command to close the current repository session.
2. Invoke a `SetRepos` command to change the current repository.
3. Invoke a `SetWorkspace` command to change the current workspace.
4. Invoke the `Open` command.

As an example, you could invoke the following set of commands to set and open a B-tree repository.

```
Fscript> Close
Fscript> SetRepos bt:myrepos
Fscript> SetWorkspace jimmy
Fscript> Open
```

Shell

The `Shell` command starts a session where operating system commands can be invoked.

`Shell`

For example, in UNIX, you can use the `Shell` command to start a Bourne shell session.

If you are running `Fscript` on the OpenVMS platforms, you cannot use the `Shell` command.

You can control the type of session that is started by setting the UNIX `SHELL` environment variable.

ShowAlias

The `ShowAlias` command shows the *alias expansion*, or command string, that the specified alias directly maps to. An *alias* is a synonym you can make for an Fscript command and its arguments using the `AddAlias` command.

```
ShowAlias [alias_name]
```

Argument	Description
<i>alias_name</i>	The alias name whose expansion you want to see.

The *alias_name* argument specifies the alias whose expansion you want to see. If you do not specify *alias_name*, then `ShowAlias` lists all alias mappings defined for this session of Fscript.

ShowApp

The `ShowApp` command shows the current configuration information for the current application in the current environment.

```
ShowApp
```

The command gives the name of the main project and environment, and lists the set of partitions and node assignments for these partitions.

You create a current configuration for the current application by partitioning it in an environment using the `Partition` command. You can set the current application by setting the main project for the application as the current project using the `FindPlan` command.

ShowAppID

The `ShowAppID` command displays the identifier for the current library project. If a variable name is specified, the identifier is stored in the specified variable without displaying the identifier.

```
ShowAppID [variable_name]
```

Argument	Description
<i>variable_name</i>	If specified, stores the identifier for the current library project.

The identifier for a library project is used by the system to generate names for files associated with compiled libraries. By default, iPlanet UDS uses the first eight characters of a library project name to generate a unique identifier, which is used to build the name for the library generation file (.lgf file), C++ wrapper file names, and the compiled library name. However, you can use `SetAppID` to override the default and specify your own name for an identifier.

The option to store the identifier in a variable is useful when using this command in scripts.

ShowCompHistory

The `ShowCompHistory` command prints information about past integrations of a component or set of components.

```
ShowCompHistory comp_match_string [verbose_flag] [num_to_show]
```

Argument	Description
<i>comp_match_string</i>	The name of a single component, or a prefix followed by an asterisk (for all components whose names start with a set of characters).
<i>verbose_flag</i>	Specifies whether to show limited information (set to 0) or to show more detailed information (set to 1).
<i>num_to_show</i>	The number of integrations to list, starting with the most recent. Set to "*" to show all integrations. The default is 1.

Use the `ShowCompHistory` command to list the following information for the specified component or set of components:

- The workspace that has the component checked out.
- The version of the component in the current workspace.
- The times and workspace names that integrated the component into the system baseline. The argument *num_to_show* will control how many of these to list, starting with the most recent.
- If the *verbose_flag* is set to 1, the comment from the integration will be listed as well.

Specify the *comp_match_string* argument as a prefix of characters followed by an asterisk to get a list of matching components. For example, the string "Test*" will list all components starting with the characters "Test" in either upper or lower case.

ShowEnv

The `ShowEnv` command provides information about the current environment, as set by the `FindEnv` or `FindActEnv` command.

```
ShowEnv
```

The `ShowEnv` command lists:

- basic environment properties
- loaded and installed applications in the environment
- nodes in the environment
- available external resource managers in the environment

ShowExpansions

The `ShowExpansions` command enables or disables the printing of *alias expansions*, the command strings that aliases map to, to standard output when they occur. An *alias* is a synonym you define for an Fscript command and its arguments using the `AddAlias` command.

```
ShowExpansions show_flag
```

Argument	Description
<i>show_flag</i>	The flag that determines the level of expansion printing

The *show_flag* argument specifies whether and how alias expansions are printed when they occur. You can specify the following values:

<i>show_flag</i> value	Description
0	No alias expansions are printed.
1	The final alias expansions are printed.
2	Each step of the alias expansion is printed.

ShowIntegrations

The `ShowIntegrations` command prints information about the integrations of a workspace or set of workspaces into the system baseline for the repository.

```
ShowIntegrations [workspace_match_string] [num_to_show]
```

Argument	Description
<i>workspace_match_string</i>	The name of a single workspace, or a prefix followed by an asterisk (for all workspaces whose names start with a set of characters). The default is "*", which will show the integrations of all workspaces in the repository.
<i>num_to_show</i>	The number of integrations from the most recent to list. This can be set to "*" to show all integrations. The default is 1.

The `ShowIntegrations` command lists, for each workspace integration:

- the name of the workspace
- the time and date the workspace was integrated.
- the contents of the integration log, including a list of all components and plans that were integrated
- comments from the integration.

The `workspace_match_string` argument defines the list of workspaces to one or more. You can specify `workspace_match_string` as:

- An `"*"` to list the integrations of all workspaces in the environment. The default is to list integrations for all workspaces.
- A workspace name for listing the integrations of one workspace only.
- A prefix followed by an asterisk for listing the integrations of any workspaces with names starting with the prefix, as shown in the following example:

```
Fscript> ShowIntegrations MyWork*
```

The `num_to_show` argument limits the number of integrations in the list to the number specified, starting at the most recent integration. The default is to list the most recent integration only.

ShowLockedWorkspaces

The `ShowLockedWorkspaces` command prints a list of the workspaces that are locked in the current repository.

```
ShowLockedWorkspaces
```

The `ShowLockedWorkspaces` command prints information about any workspaces, including:

- Workspaces that are currently open.
This command also prints the name of the node on which a client application has the workspace open.
- Workspaces that have global versioning locks, which are taken when some large repository commands, such as `UpdateWorkspace` and `IntegrateWorkspace`, are invoked.

If locks are left on workspaces and must be removed, you can use the `UnlockWorkspace` or `ForceWorkspaceUnreserved` commands.

ShowPath

The `ShowPath` command shows the current search path.

```
ShowPath
```

The `ShowPath` command displays the current directory search path for resolving file names in Fscript commands that take file name arguments.

You use the `SetPath`, `SetSearchPath` and `AddPath` commands to set up the directory search path.

ShowPlan

The `ShowPlan` command prints information about the current plan. A current plan can be a project, an application model, or a business model.

```
ShowPlan
```

Use the `FindPlan` command to set the current plan.

The `ShowPlan` command prints information about the current plan, as designated by the `FindPlan` command.

For projects, this information can include:

- plan name
- properties of the plan
- list of supplier plans
- set of components of the project
- set of configurations defined for the project

For application models and business models, this information can include:

- plan name
- properties of the plan
- list of supplier plans
- list of generated projects
- contents of the plan (classes, windows, services, and so on)

ShowPlanHistory

The `ShowPlanHistory` command prints information about past integrations of the current plan. The current plan must be an application model or business model. If the current plan is a project, you should use the `ShowCompHistory` command.

```
ShowPlanHistory [verbose_flag] [num_to_show]
```

Argument	Description
<i>verbose_flag</i>	Specifies whether to show limited information (set to 0) or to show more detailed information (set to 1).
<i>num_to_show</i>	The number of integrations to list, starting from the most recent integration. This can be set to "*" to show all integrations. The default is 1.

Use the `ShowPlanHistory` command to list the following information for the current plan:

- The workspace that has the plan checked out.
- The version of the plan in the current workspace.
- The times and workspace names that integrated the plan into the system baseline. The argument *num_to_show* will control how many of these to list, counting back from the most recent.
- If the *verbose_flag* is set to 1, the comment from the integration will be listed as well.

ShowReposInfo

The `ShowReposInfo` command prints information about the repository and current workspace.

```
ShowReposInfo
```


The `ShowReposInfo` command prints information about the current repository, including the name and some physical properties of the repository. These properties include:

- whether you are in a shadow repository or not, and the name of the central repository for a shadow repository
- for a shadow repository, a list of workspaces cached the list of workspaces in the shadow repository
- creation date of the repository
- creation date of the workspace
- date that the workspace was last updated

ShowWorkspace

The `ShowWorkspace` command prints the names of the current workspace and current repository.

```
ShowWorkspace
```

You can set the current repository using the `SetRepos` command. You can set the current workspace using the `SetWorkspace` command.

SilentOff

The `SilentOff` command disables the printing of exceptions to standard output on subsequent `Fscript` commands.

```
SilentOff
```

You can use this command to control exception printing in running scripts.

SilentOn

The `SilentOn` command enables the printing of exceptions to standard output on subsequent `Fscript` commands.

```
SilentOn
```

You can use this command to control exception printing in running scripts.

Step

The `Step` command allows you to step through the commands interactively before they are executed while a script started by an `Include` command is running.

`Step`

The `Step` command is useful in troubleshooting files started by the `Include` command in `Fscript`. Once you invoke the `Step` command, `Fscript` will prompt you before invoking each command read from the script file.

StopRemoteParts

The `StopRemoteParts` command stops any of the remote partitions that have been automatically started through the `RunDistrib` command.

`StopRemoteParts`

When you partition an application and execute the `RunDistrib` command to test the application configuration, iPlanet UDS automatically starts up server partitions on remote server machines if they are needed by the application. After the `RunDistrib` command completes execution of the client portion of an application and returns to the `Fscript` command prompt, the remote partitions for the application are still running. The remote partitions do not automatically shut down when the client shuts down because the remote partitions are often set up to be shared among client partitions.

The remote partitions are automatically shut down only when one of the following happens:

- You close the repository session by invoking the `Close` command or by leaving `Fscript` using the `Exit`, `ExitIfNoEnvMgr`, or `Quit` commands.
- You switch to another project or configuration, by invoking the `FindPlan` or `FindEnv` commands.
- You invalidate the current configuration by changing the partitioning or application logic so that a new partition must replace the partition currently executing. The old remote partitions are shut down when you reinvoke the `RunDistrib` command.

You can use the `StopRemoteParts` command to explicitly stop the partitions, even if one of the situations described above does not occur. For example, you might want to recheck logic of the remote partition startup by reinvoking the `RunDistrib` command.

You can also use the `StopRemoteParts` command to release the shared configuration lock on the environment that is set by any of the partitioning manipulation commands, such as `Partition`, `ShowApp` or `RunDistrib`. If you keep this configuration lock, users of the Environment Console and `escript` cannot manage the environment. You can use the `StopRemoteParts` command to explicitly release the configuration lock.

TestApp

The `TestApp` command requests that `Fscript` wait for a remote execution of an application, and then run the client portion of that application on this node.

```
TestApp project_name [environment_name]
```

Argument	Description
<i>project_name</i>	The name of a main project of an application that is currently being partitioned in another session.
<i>environment_name</i>	The name of the environment in which the application is being partitioned.

The `TestApp` command requests that this `Fscript` session wait to be sent a client partition so that this `Fscript` session can participate in a shared test of the project.

The *project_name* and *environment_name* arguments are taken from the output of the `ListTestApps` and are used to identify which remote partitioning session you want to test.

Test client partitions of applications The `TestApp` command, along with the `RunDistrib` and `ListTestApps` commands, let you set up tests of your distributed application with multiple client partitions running. For example, you might want to do this to stress test your application.

When you invoke the `TestApp` command, this `Fscript` session stops prompting for commands. This `Fscript` session notifies the session that is partitioning the application that this session is waiting to participate in the distributed test.

When the remote partitioning session starts the application using the Partition Workshop `Run` command or the Fscript `RunDistrib` command, the client portion of the application starts running in your Fscript session. You can interact with the client interface as though you started the application yourself. After you exit the client portion of the application, the Fscript session displays the Fscript prompt, and you can invoke further Fscript commands.

► **To test the client partition of an application using Fscript**

1. Start an Fscript session or a session of the Partition Workshop.
2. Partition the application you want to test.

In the Fscript session, you need to open your workspace, make the main project for the application the current project using the `FindPlan` command, set the current environment using the `FindEnv` command, invoke the `Partition` command to generate the default configuration, and modify your configuration, as appropriate.

For information about partitioning in the Partition Workshop to set up tests, see *A Guide to the iPlanet UDS Workshops*.

3. Start an Fscript session on the client node.
4. Invoke the `ListTestApps` command on the client node to get a list of applications available for testing.
5. Invoke the `TestApp` command on the client node to request that Fscript wait to be sent a client partition to run. See “[TestApp](#)” on page 155 for details.

You can also test client partitions using the `TestClient` utility. This utility is explained in *A Guide to the iPlanet UDS Workshops*.

UnassignAppComp

The `UnassignAppComp` command unassigns the specified application component—a partition or a library project—from the specified node in the current configuration.

```
UnassignAppComp node_name [component_name]
```

Argument	Description
<i>node_name</i>	The name of the node for which the component is to be unassigned.
<i>component_name</i>	The name of a component in the current application.

Use the `UnassignAppComp` command to remove a component from future installation on a specific node in the environment.

The `node_name` must be a valid node defined in the environment, and the component must be assigned to it, either through the default partitioning, or by an explicit `AssignAppComp` command.

The optional `component_name` is the name of the component in the current configuration of the current project, which is to be unassigned to the node. You can specify the unique trailer portion of the name only, such as “client”, to identify the component. If no `component_name` is given, then the current component is assigned. Use the `FindAppComp` command to designate a current component.

See “[AssignAppComp](#)” on page 50 for more information on assigning components to nodes.

UndoBranchComp

The `UndoBranchComp` command removes any changes made in a branched component, and reverts the component to its state as of the last `UpdateWorkspace` command.

`UndoBranchComp` *component_name*

Argument	Description
<i>component_name</i>	The name of a component in the current project which has been branched.

If you branched a component in the current project using the `BranchComp` command, you can discard the branch by invoking the `UndoBranchComp` command. Because you cannot integrate a workspace that has branches in it, you must either invoke the `UndoBranchComp` command to delete any branches, or convert the branches to checkouts using the `CheckoutComp` command before integrating.

You can invoke the `UndoBranchComp` command on a shadow repository only while the shadow repository is attached to the central repository.

You can undo all branches and checkouts for a project with the `RevertProj` command, described in “[RevertProj](#)” on page 120.

UndoBranchPlan

The `UndoBranchPlan` command removes any changes made in the current plan if it is branched and a business model or an application model. This command reverts the plan to its state as of the last `UpdateWorkspace` command. You cannot use this command if the current plan is a project.

`UndoBranchPlan`

If you branched the current plan using the `BranchPlan` command, you can discard the branch by invoking the `UndoBranchPlan` command. Because you cannot integrate a workspace that has branches in it, you must either invoke the `UndoBranchPlan` command to delete any branches, or convert the branches to checkouts using the `CheckoutPlan` command before integrating.

You can invoke the `UndoBranchPlan` command on a shadow repository only while the shadow repository is attached to the central repository.

UndoCheckoutComp

The `UndoCheckoutComp` command removes any changes made to a checked-out component, and reverts the component to its state as of the last `UpdateWorkspace` command. It also releases the exclusive checkout lock on the component.

`UndoCheckoutComp` *component_name*

Argument	Description
<i>component_name</i>	The name of a component in the current project which has been checked out.

The `UndoCheckoutComp` command removes the exclusive checkout lock on the component, which lets other workspaces check out the component. The `UndoCheckoutComp` command also discards any unintegrated changes you made to the checked-out version of the component. The component is left in your workspace as a read-only component.

After you invoke the `UndoCheckoutComp` command, you should invoke a `Commit` command to make the component available to other workspaces for check out.

You can invoke the `UndoCheckoutComp` command on a shadow repository only while the shadow repository is attached to the central repository.

You can undo all branches and checkouts for a project with the `RevertProj` command, described in [“RevertProj” on page 120](#).

UndoCheckoutPlan

The `UndoCheckoutPlan` command removes any changes made to the current plan if it is checked-out and a business model or application model. This command reverts the plan to its state as of the last `UpdateWorkspace` command and releases the exclusive checkout lock on the component. If the current plan is a project, use the `UndoCheckoutComp` command.

```
UndoCheckoutPlan
```

The `UndoCheckoutPlan` command removes the exclusive checkout lock on the plan, which lets other workspaces check out the plan. The `UndoCheckoutPlan` command also discards any unintegrated changes you made to the checked-out version of the plan. The plan is left in your workspace as a read-only component.

After you invoke the `UndoCheckoutPlan` command, you should invoke a `Commit` command to make the plan available to other workspaces for check out.

You can invoke the `UndoCheckoutPlan` command on a shadow repository only while the shadow repository is attached to the central repository.

UndoRemoveComp

The `UndoRemoveComp` command retrieves a project component that was removed from the workspace using the `RemoveComp` command.

```
UndoRemoveComp component_name
```

Argument	Description
<i>component_name</i>	The name of a component in the current project which has been removed using the <code>RemoveComp</code> command.

If you have removed a checked-out component in the current project using the `RemoveComp` command, you can undo the effects of the `RemoveComp` command by invoking the `UndoRemoveComp` command.

You can use the `UndoRemoveComp` command only until you integrate the workspace using the `IntegrateWorkspace` command or the Repository Workshop. After you integrate your workspace, the component is permanently removed from the workspace and the system baseline, and you can no longer use the `UndoRemoveComp` command to retrieve the component.

If a component was newly created in your workspace but has not been integrated, then you cannot recover the deleted component using the `UndoRemoveComp` command. The `UndoRemoveComp` command does not recover any unintegrated changes you made to the component before you removed it.

The `UndoRemoveComp` command removes the exclusive checkout lock on the component, which lets other workspaces check out the component. The component is left in your workspace as a read-only component.

You can invoke the `UndoRemoveComp` command on a shadow repository only while the shadow repository is attached to the central repository and while this shadow has no uncommitted changes.

UnlockWorkspace

The `UnlockWorkspace` command unlocks a workspace that has been left locked by unusual error conditions.

```
UnlockWorkspace workspace_name [workspace_password]
```

Argument	Description
<i>workspace_name</i>	The name of the workspace to unlock or unreserve.
<i>workspace_password</i>	If the workspace has a password, you must specify the password in the <code>UnlockWorkspace</code> command.

The repository software normally removes locks, so you rarely need this command. However, in certain error conditions, it is necessary to explicitly unlock workspaces.

CAUTION You must be very careful when using the `UnlockWorkspace` command to ensure that you are correcting one of the situations described. You can lose work in your repository if you use the `UnlockWorkspace` command incorrectly.

To see a list of workspaces that are currently locked, invoke the `ShowLockedWorkspaces` command.

Normally, workspace locks are released whenever the sessions close the repository, even if they abort abnormally. However, because the central repository servers are not always notified by network software when client nodes are unexpectedly rebooted, the locks on workspaces can be left in the repository for periods of time, even though the session that presumably has the lock has gone away. You can use the `UnlockWorkspace` command to unlock the lock on a workspace that has been “orphaned” in this way. System managers can also unlock workspaces using `Esript` and `Environment Console` commands, as described in *Esript and System Agent Reference Guide*.

If you need to release a reserved workspace in the central repository because a shadow repository was corrupted, use the `ForceWorkspaceUnreserved` command. This command is explained in [“ForceWorkspaceUnreserved” on page 79](#).

UpdateWorkspace

The `UpdateWorkspace` command updates the contents of the current workspace with any changes integrated into the system baseline since the last time you used the `UpdateWorkspace` command for this workspace.

```
UpdateWorkspace [logfile_name]
```

Argument	Description
<i>logfile_name</i>	The name of a file to use for logging the results of the <code>UpdateWorkspace</code> operation. Using the <code>UpdateWorkspace</code> command can be time consuming, so you can specify the name of the file to later examine the resulting status messages. If this argument is not specified, the results are listed in the <code>Fscript</code> trace output.

You should use the `UpdateWorkspace` command regularly to add changes that have been made to the system baseline since you first created your workspace. The `UpdateWorkspace` command only copies changes made to plans that are included in your workspace.

NOTE Before you can use the `UpdateWorkspace` command, you must commit all outstanding changes in the session using the `Commit` command.

If you have branches that might be overwritten by the `UpdateWorkspace` command, you need to remove the branches using the `UndoBranchComp` command. When you invoke the `UpdateWorkspace` command, you will get errors if you have branched components in your workspace that would be overwritten by the `UpdateWorkspace` command. The Repository Workshop provides additional capabilities for merging these branch conflicts. See *A Guide to the iPlanet UDS Workshops* for details.

Recovery from updating failures If the update to the workspace fails, any changes that have been made to the workspace are backed out, and the workspace is in the same state as before the `UpdateWorkspace` command was invoked. The global repository lock, which prevents other developers from updating or integrating their workspaces, is automatically removed as part of the recovery process.

If the `UpdateWorkspace` command fails because the repository client session that invoked the command fails, the repository server might not release the global repository lock held by the client session. You might need to use the `Fscript UnlockWorkspace` command to notify the repository server that the client session is no longer active. The `UnlockWorkspace` command, described in [“UnlockWorkspace” on page 160](#), unlocks both the workspace and any global repository locks held by that workspace.

UseLocal

The `UseLocal` command specifies that path names in `Fscript` commands use local operating system file name format.

```
UseLocal
```

The `UseLocal` command tells Fscript to assume that the file names given for Fscript commands are specified in local operating system format instead of the portable file naming format. The local operating system is determined by the machine where you start the Fscript command.

When Fscript starts, the default is to use the local operating system file naming format for file name arguments. However, if you invoke a `UsePortable` command during the Fscript session, you must use the `UseLocal` command to revert to the default naming conventions.

The following table shows how you enter local file formats for each operating system:

File format	Examples
UNIX	<pre>Fscript> UseLocal Fscript> Include /mydisk/mydir/myfile.inc Fscript> ListFile \${FORTE_ROOT}/install/examples/tstapps.fsc</pre>
Windows	<pre>Fscript> UseLocal Fscript> Include c:\mydir\myfile.inc Fscript> ListFile \${FORTE_ROOT}\install\examples\tstapps.fsc</pre>
VMS	<pre>Fscript> UseLocal Fscript> Include \$dska:[mydir]myfile.inc Fscript> ListFile \${FORTE_ROOT}:[install.examples]tstapps.fsc</pre>

UsePortable

The `UsePortable` command specifies that path names in Fscript commands use iPlanet UDS portable file name format.

```
UsePortable
```

The `UsePortable` command tells Fscript to assume that the file names given for Fscript commands are specified in portable file naming format instead of the local operating system format. You can write portable scripts of Fscript commands when you use the portable file name format.

When Fscript starts, the default is to use the local operating system file naming format for file name arguments. Use the `UsePortable` command to tell Fscript to expect the portable file format.

iPlanet UDS portable file naming uses the following conventions:

- Directory paths are specified in UNIX format, with slashes to represent the directory hierarchy.
- Directory names can be up to eight characters long.
- File names can be up to 8 characters long, and are followed by an extension up to 3 characters long. Certain extensions support conventions for file types, which are described in the iPlanet UDS online Help.
- The special syntax “%{*environment_variable_name*}” can be embedded in a portable file name. This syntax looks for an environment variable with the given name, and assumes that the environment variable represents a directory name in local operating system format. However, it expands it within a portable file name as if it were specified in portable format. This provides a good way to provide local “roots” for directories of files, and then use portable format underneath that root to the tree.

The following example shows how you can use `UsePortable` and portable file format:

```
Fscript> UsePortable
Fscript> Include /mydisk/mydir/myfile.inc
Fscript> Include %{FORTE_ROOT}/install/examples/tstapps.fsc
```

UseServiceFromApp

The `UseServiceFromApp` command defines a reference partition that references a service object that has been installed as a shared service in the current environment.

```
UseServiceFromApp service_object_name application_name
```

Argument	Description
<i>service_object_name</i>	The name of a service object in a project in the workspace.
<i>application_name</i>	The name of an application that has been installed (or at least has had an application distribution made for it), which contains the same service object.

The `UseServiceFromApp` command defines a reference partition so that a service object in an installed application in the environment can be used in the current application. This allows you to share partitions across installed applications.

The *service_object_name* specifies the name of the service object to be shared, and the *application_name* specifies the application that provides this service object.

You can use the `ListServiceApps` command to list instances of a service object in the current environment. You can then invoke the `UseServiceFromApp` command to define one of the installed service objects as a reference partition for the specified service object. When you later make a distribution for the current application and install the distribution in the environment, the current application will use the installed service object instead of creating and using a new service object.

For more information about making reference partitions, see *A Guide to the iPlanet UDS Workshops*.

ValidatePlan

The `ValidatePlan` command checks the current plan—a business model or application model—for errors without generating application code. This command does not work for projects.

```
ValidatePlan
```

If you want to check your model for errors without going through a lengthy code generation process, use `ValidatePlan` instead of `CompilePlan`.

Vi

The `vi` command starts an editor so that you can edit the specified file.

```
vi [file_name]
```

Argument	Description
<i>file_name</i>	The name of the file you want to edit.

The *file_name* argument, given without a directory path, specifies the file that you want to edit. Specify the file name relative to the current working directory. By default, specify the *file_name* argument in local operating system format. If you invoke the `UsePortable` command, however, the file name must be specified in portable file format.

If you do not specify the *file_name* argument, then the editor starts a new file.

You can define what editor is used with the `vi` command by setting the `FORTE_EDITOR` environment variable.

WhichFile

The `WhichFile` command searches through the directories in the current directory search path to locate the first directory in which the specified file exists.

`WhichFile file_name`

Argument	Description
<i>file_name</i>	The simple name of a file to locate.

You can invoke the `WhichFile` command to search each of the directories in the current directory search path to see where a specific file is located. The current directory search path is defined using the `SetPath` and `AddPath` commands. You can use the `ShowPath` command to display the current directory search path.

The *file_name* argument is the name of a file, given without a directory path. Each directory in the current directory search path is checked in turn to see if it contains the named file. When a match is found, the directory name that contained the file is displayed.

Fscript Command Summary

This appendix contains a summary list of all Fscript commands, with their arguments and a brief description of the purpose of each command.

Fscript Command Summary

Table A-1 Fscript Commands Summary

Command	Description	See...
AddAlias <i>alias_name command_string</i>	Define an alias for an Fscript command and its arguments.	page 46
AddPath <i>directory_name [; directory_name . . .]</i>	Add a new directory path to the directory path Fscript commands use to seek files. (See also SetPath).	page 46
AddProjToLib <i>project_name</i>	Add a project to the current library configuration.	page 48
AddSupplierPlan <i>plan_name</i>	Include a plan as a supplier plan to the current plan.	page 49
AssignAppComp <i>node_name [partition_name]</i>	Assign a partition or a library to a specific node.	page 50
AttachToCentral	Attach a shadow repository to the central repository.	page 51
BackupRepos <i>directory_name</i>	Backup the current repository to another directory.	page 52
BranchAllComps	Branch all components in the current project to the workspace.	page 52

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
BranchComp <i>component_name</i>	Branch a read-only or checked out component in the workspace.	page 53
BranchPlan	Branch the current business model or application model.	page 53
Cd <i>directory_name</i>	Change the current working directory to the specified directory.	page 54
CheckoutAllComps [<i>available_flag</i>]	Check out all components in the current project to the workspace.	page 55
CheckoutComp <i>component_name</i>	Check out a read-only or branched component in the workspace.	page 55
CheckoutPlan	Check out the current business model or application model.	page 56
Chmod <i>mode file_name</i>	Change the permissions of the specified file.	page 57
Close	Close the current workspace.	page 58
CollectMem	Run the memory garbage collector.	page 58
CommentOff	Turn off recording of comments to standard output.	page 58
CommentOn	Turn on recording of comments to standard output.	page 59
Commit	Commit changes to current workspace.	page 59
Compile <i>file_name</i>	Compile a file containing project component definitions.	page 59
CompilePlan [<i>force_flag</i>]	Compile all out-of-date components in a plan.	page 61
CompileWorkspace [<i>projects-only</i>] [<i>force</i>]	Compiles all plans in the current workspace.	page 62
CopyFile <i>file1_name file2_name</i> [<i>r</i>]	Copy a file.	page 62
Cp <i>file1_name file2_name</i> [<i>r</i>]	Copy a file.	page 63
Delay <i>milliseconds</i>	Delay the current task for the specified number of milliseconds.	page 63
DetachFromCentral	Detach a shadow repository from the central repository, reserving the current workspace.	page 64

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
Directory <i>[directory_name]</i>	List files in a directory.	page 65
DisableAppComp <i>node_name [partition_name]</i>	Disable autostart for a partition on a node.	page 66
Duplicate <i>file1_name file2_name [r]</i>	Copy a file.	page 67
EnableAppComp <i>node_name [partition_name]</i>	Enable autostart for a partition on a node.	page 67
ExcludePlan <i>plan_name</i>	Exclude a plan from the current workspace, which removes it completely if it has never been integrated.	page 68
ExecCmd <i>opsys_cmd [bg_flag] [in_file] [out_file] [err_file]</i>	Execute an operating system command.	page 69
Exit	Leave Fscript.	page 71
ExitIfNoEnvMgr	Leave Fscript once no environment manager is running.	page 71
ExitStatus <i>integer</i>	Set a value to be returned to the routine that started Fscript.	page 71
ExportClass <i>class_name file_name [noids ids]</i>	Export the named class to a text file.	page 72
ExportPlan <i>file_name [noids ids]</i>	Export all components in a plan to a file.	page 73
ExportTemplate <i>file_name</i>	Export the current project as an iPlanet UDS Express template file.	page 74
ExportWindowClass <i>class_name class_file window_file [noids ids]</i>	Export a UserWindow subclass to two files, one for the class and one for the window definition.	page 75
ExportWorkspace <i>file_name [noids ids]</i>	Writes the definition of all plans in the current workspace to a text file.	page 76
FindActEnv	Set the current environment to the active environment.	page 76
FindAppComp <i>component_name</i>	Set the current component for the current configuration.	page 77

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
FindEnv <i>environment_name</i>	Set the current environment.	page 77
FindPlan <i>plan_name</i>	Set the current plan.	page 78
ForceWorkspaceUnreserved <i>workspace</i> [<i>workspace_password</i>]	Forces a workspace to become unreserved.	page 79
Help [<i>command_name</i> <i>match_string</i> *	List help on Fscript commands.	page 80
ImportClass <i>file_name</i>	Compile a file containing project component definitions.	page 81
ImportPlan <i>file_name</i> [<i>merge</i>]	Import the plan from a file.	page 82
ImportWorkspace <i>file_name</i> [<i>merge</i>]	Import one or more plans belonging to a workspace from a file.	page 84
Include <i>file_name</i>	Execute a set of Fscript commands from another file.	page 85
IncludePublicPlan <i>plan_name</i>	Include a publicly-available plan in the current workspace.	page 86
IncreaseCompatLevel	Increase the compatibility level for a project.	page 87
IntegrateWorkspace <i>comment</i> [<i>logfile_name</i>] [<i>baseline_password</i>]	Integrate the changes in this workspace into the shared repository.	page 87
ListChangesInWorkspace [<i>filter_type</i>]	List all project components and plans in the workspace whose status matches the specified filter.	page 89
ListComps <i>comp_match_string</i> [<i>filter_type</i>] [<i>proj_match_string</i>]	List project components in the workspace whose version state matches the specified filter.	page 90
ListEnvs	List the environments in the workspace.	page 91
ListFile <i>file_name</i>	List contents of a file in output.	page 92
ListFiles [<i>directory_name</i>]	List files in a directory.	page 92
ListPlans [<i>match_string</i> *]	List the plans in the current workspace.	page 93

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
ListPublicPlans <i>match_string</i> [<i>show_unintegrated</i>] [<i>show_internal</i>]	List the publicly available plans in the repository.	page 94
ListServiceApps <i>service_object_name</i>	List installed applications containing the same referenced service object.	page 95
ListTestApps [<i>use_cache_flag</i>]	List applications which are currently being partitioned for use in shared client testing.	page 96
ListWorkspaces [<i>verbose_flag</i>]	List the workspaces in the repository.	page 97
Ls [<i>directory_name</i>]	List files in a directory.	page 97
MakeAppDistrib [<i>remake_flag</i>] [<i>node_name</i>] [<i>auto_compile</i>] [<i>install</i>]	Create a distribution for the current configuration.	page 98
MemStats	Print memory statistics to standard output.	page 100
MkDir <i>directory_name</i>	Create a directory.	page 102
ModLogger + (<i>logger_flags</i>) - (<i>logger_flags</i>)	Add or remove logger flags.	page 102
MoveServiceToPart <i>service_object_name</i> [<i>partition_name</i>]	Move a service object in current configuration to another partition.	page 103
Mv <i>old_file_name new_file_name</i>	Rename a file.	page 104
NewPart <i>service_object_name</i>	Create a new partition, with the specified service object.	page 105
NewPlan <i>plan_type plan_name</i>	Create a new plan in the current workspace.	page 105
NewProj <i>project_name</i>	Create a new project in the current workspace.	page 107
NewWorkspace <i>workspace_name</i> [<i>initial_password</i>] [<i>admin_password</i>]	Create a new workspace in repository.	page 108
Open [<i>readonly readwrite exclusive </i> <i>exclusivewriter</i>] [<i>workspace_password</i>]	Open the workspace specified on the last SetWorkspace command.	page 109

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
Partition [1 3]	Partition using the current project and the current environment.	page 111
PrintEnv [<i>variable_name</i>]	Print the current value of one or all environment variables.	page 112
Pwd	Print the current working directory.	page 112
Quit	Exit Fscript.	page 113
ReadIntoFile <i>file_name</i> [<i>term_str</i>]	Read lines of data following this command and write the data to the specified file.	page 113
RemoveAlias [<i>alias_name</i>]	Remove an alias.	page 114
RemoveConf [<i>configuration_name</i>]	Remove a configuration for the current project.	page 114
RemoveComp <i>component_name</i>	Remove the named component from the current project.	page 115
RemoveFile <i>file_name</i>	Remove the specified file.	page 116
RemoveProjFromLib <i>project_name</i>	Remove a project from the current library configuration.	page 116
RemovePublicPlan <i>plan_name</i>	Remove the publicly-available plan completely from the repository.	page 117
RemoveSupplierPlan <i>plan_name</i>	Remove a supplier plan from the current plan.	page 117
RemoveWorkspace <i>workspace_name</i> [<i>workspace_password</i>]	Remove a workspace from the repository.	page 118
RenameComp <i>old_name new_name</i>	Rename a component in the current project.	page 119
Repeat <i>rep_count</i>	Repeats the next command the specified number of times.	page 119
RevertProj	Undo all changes made to a project since last integration.	page 120
Rm <i>file_name</i>	Remove the specified file.	page 120
Run [<i>arguments</i>]	Run the project in test mode from the starting class and method.	page 120

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
RunDistrib [arguments]	Run the current project in distributed mode for the current configuration.	page 122
RunFile file_name	Run the fragment of TOOL code that is in the file.	page 123
Save	Save changes in the current workspace to the shadow repository.	page 124
SCMExportComponent	Export the component definition for the specified component.	page 124
SCMExportProject	Export the project definition for the current project.	page 125
Script file_name	Capture Fscript commands into a file.	page 126
SearchFile file_name searchText [replaceText] [showLineNumbers]	Locate text in a file.	page 126
SetAppCompCompiled node_name compiled_flag [component_name]	Define a partition or library as compiled on a specific node.	page 127
SetAppletFlag 0 1	Defines the client application associated with a logical client partition as an applet.	page 129
SetDefault directory_name	Change the current working directory to the specified directory.	page 130
SetEnv variable_name [value]	Set an environment variable to the specified value.	page 130
SetOutFile [file_name]	Set the file where standard output is printed.	page 131
SetPartArgs node_name arguments [partition_name]	Set the startup arguments for a partition on a node.	page 131
SetPartRepCount node_name replication_count [partition_name]	Set the autostart replication count for a load balanced or failover server on a node.	page 133
SetPassword password_type new_password [current_password]	Set the password for the current repository.	page 134
SetPath directory_name [; directory_name . . .]	Set the directory path for Fscript commands to seek files.	page 135

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
SetPrefNode <i>node_name</i>	Set the preferred server node for subsequent partitioning of a project in a configuration.	page 137
SetProjRestricted <i>restricted_flag</i>	Set the restricted property for a project.	page 137
SetProjStart <i>class_name method_name</i>	Set the starting class and method for the current project.	page 138
SetProjType <i>type_flag</i>	Set project as user application (1), server only (2), or library (3).	page 139
SetRepos <i>repository_name</i>	Set the name of repository for next Open.	page 140
SetSearchPath <i>directory_name [; directory_name . . .]</i>	Set the directory path for Fscript commands to seek files.	page 141
SetServiceEOSInfo <i>service_object_name EOS_Type</i> <i>[export_name]</i>	Set the type of external object service a service object is available to and its export name.	page 142
SetWorkspace <i>workspace_name</i>	Set the name of the workspace for next Open.	page 144
Shell	Starts a session in which operating system commands can be invoked.	page 145
ShowAlias <i>[alias_name]</i>	Display one or all defined aliases with their expansions.	page 146
ShowApp	Show information about the current application configuration.	page 146
ShowCompHistory <i>comp_match_string [verbose_flag]</i> <i>[num_to_show]</i>	Show the integration history of a component, or set of matching components.	page 147
ShowEnv	Show information about the current environment.	page 148
ShowExpansions <i>show_flag</i>	Enable or disable the printing of alias expansions to standard output when they occur.	page 149
ShowIntegrations <i>[workspace_match_string]</i> <i>[num_to_show]</i>	Show information about integrations of workspaces.	page 149
ShowLockedWorkspaces	Show a list of workspaces that have locks on them, and show the type of lock.	page 150

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
ShowPath	Shows the directory paths Fscript commands use to seek files. (See also SetPath).	page 151
ShowPlan	Display information about the current plan.	page 151
ShowPlanHistory [<i>verbose_flag</i>] [<i>num_to_show</i>]	Print information about past integrations of the current plan.	page 152
ShowReposInfo	Show physical information about the repository.	page 152
ShowWorkspace	Show the name of the current workspace and repository.	page 153
SilentOff	Turn off the printing of exceptions to standard output.	page 153
SilentOn	Turn on the printing of exceptions to standard input.	page 153
Step	Step through commands in an include file.	page 154
StopRemoteParts	Stop remote partitions which have been launched by the RunDistrib command.	page 154
TestApp <i>project_name</i> [<i>environment_name</i>]	Start a wait for testing the client portion of a remotely started application.	page 155
UnassignAppComp <i>node_name</i> [<i>component_name</i>]	Remove the assignment of a partition or library on a node.	page 156
UndoBranchComp <i>component_name</i>	Undo the branch for a component, and revert to previous state.	page 157
UndoBranchPlan	Undo the branch for the current business model or application model, and revert to its previous state.	page 158
UndoCheckoutComp <i>component_name</i>	Undo the checkout for a component, and revert to previous state.	page 158
UndoCheckoutPlan	Undo the checkout for the current business model or application model, and revert to its previous state.	page 159
UndoRemoveComp <i>component_name</i>	Undo the effects of a RemoveComp on a component and revert to previous state.	page 159
UnlockWorkspace <i>workspace_name</i> [<i>workspace_password</i>]	Force an unlock of a workspace in the repository.	page 160
UpdateWorkspace [<i>logfile_name</i>]	Update the current workspace with any changes in the system baseline since the last update.	page 161

Table A-1 Fscript Commands Summary (*Continued*)

Command	Description	See...
UseLocal	Set Fscript to recognize file name input in local name format.	page 162
UsePortable	Set Fscript to recognize file name input in portable format.	page 163
UseServiceFromApp <i>service_object_name application_name</i>	Reference the named service object from the named application.	page 164
ValidatePlan	Check the business model or application model for errors without generating application code.	page 165
Vi <i>[file_name]</i>	Check the business model or application model for errors without generating application code.	page 165
WhichFile <i>file_name</i>	Find a file in the current directory search path.	page 166

Memory and Logger Flags

This appendix contains a detailed description of how to use the memory and logger flags.

You can specify these flags using the `-fl` and `-fm` flags with the `fscript` command. You can also specify these flags using the `SetPartArgs` command. You can also set the logger flags using the `ModLogger` command.

-f1 Flag (iPlanet UDS Logger)

The `-f1` flag allows you to specify logger flags to be used for the command. The logger flags set the file or files used by the `LogMgr` object for logging messages, and specify the types of messages logged in each file. See `LogMgr` class in the iPlanet UDS online Help for information on how to produce the actual messages.

The `-f1` flag overrides the setting of the `FORTE_LOGGER_SETUP` environment variable.

```
-f1 file_name (file_filter) [file_name (file_filter) . . . ]
```

For UNIX and VMS, any arguments that contain parentheses must be enclosed by double quotes.

The following sections provide information specifying the file name and file filters.

File Name

The log file name is any valid file name where you want to log messages. The special file names “%stdout” and “%stderr” log the messages to standard output or standard error, respectively.

You can specify several files for logging messages. Multiple logging files are useful, for example, in an application where you want to display general tracing on standard output (%stdout), but want detailed tracing logged to a file for later review.

On Windows only, you can use the name “%stdwin” to create a simple, scrollable output window for textual output. “%stdwin” is particularly useful to specify an alternative file for the output from Fscript or the iPlanet UDS Workshops.

File Filter

Each file name is associated with a *file filter*.

```
message_type[ :service_type[ :group_number[ :level_number ] ] ]
```

A description of each file filter option follows.

Message Type Option

The most general filter is message type. The value of message type differentiates messages such as errors, debugging information, or performance data. The message types appear in the following table. Each type is paired with a runtime LogMgr constant that corresponds to the message type when used with the more complex versions of the Put and PutLine methods:

Table B-1 Message Types Filters and Their Meanings

Type	Meaning	Put or PutLine Constant
err	Error Messages	SP_MT_ERROR
sec	Security messages	SP_MT_SECURITY
aud	Audit messages	SP_MT_AUDIT
prf	Performance information	SP_MT_PERFORMANCE
cfg	Configuration modification	SP_MT_CONFIGURATION
trc	Debugging Information	SP_MT_DEBUG
*	All of the above	Any of the above

By using the message type categories, you can print different types of messages to different files. For example, you may want to print trace messages on standard output, error messages on standard output and an error log file, and performance information in a performance log file. The specification for this setup might be the following:

```
%stdout(trc:user err:user) err.log(err:user) perf.log(prf:user)
```

Service Type Option

Within message types there are service types. Service types are the large subdivisions you make within your program and typically map to projects. The service type parameter is optional. If used, the service type value must be between “user1” and “user10”. Typically, a service is a large portion of your application, such as inventory control, accounts receivable, or employee administration.

The LogMgr constant that corresponds to the service types “user1” through “user10” is SP_ST_USER1 through SP_ST_USER10. You can use these constants with the advanced version of the Put or PutLine methods or with the Test method. For convenience, you can use the name “user” or the asterisk symbol (*) to specify all user service types. Previous examples used the specification “user” without a trailing digit to indicate all user services.

For example, if you want all tracing to go to standard output, but tracing from service types “user1” and “user3” to be logged in a special file as well, you would use the following specification:

```
%stdout(trc:user) trcl_3.log(trc:user1 trc:user3)
```

Group Number Option

Within a service type there are group numbers. Group numbers are smaller subdivisions you make within a particular service and typically map to a group of related facilities. The optional group number provides further filtering within the service. A group number is between 1 and 63 inclusive.

For example, within a particular service (say, “user3”) you may have subdivided the modules into groups (for example, “transactions in progress”, “queued work lists”, and “problem reports”). Each module is large enough to warrant a group number within the service. “Transactions in progress” may be group number 2, whereas “problem reports” may be the group number 4. The following specification puts performance information from group number 2 into one file and trace information from group number 4 into another file:

```
xactprog.prf(prf:user3:2) probrep.trc(trc:user3:4)
```

The group number you specify in a Put method may be a constant that you defined to be equivalent to the numeric literal that you specified in FORTE_LOGGER_SETUP. For example, even though the literal 2 indicates the “transaction in progress” group, your specification to print the related performance information may be the following:

```
task.Part.LogMgr.PutLine(SP_MT_PERFORMANCE,  
    SP_ST_USER3,TRANSACT_IN_PROGRESS,1,perfTextData);
```

This code assumes the value of the TOOL constant TRANSACT_IN_PROGRESS is 2.

You can also specify a range of group numbers using the syntax *group#-group#*. In the previous example, if you want trace information from groups 2 through 4 to go to a specific file, you would use the following statement:

```
some_trc.log(trc:user3:2-4)
```

Level Number Option

Within a group there are level numbers that you use to specify particularly detailed levels of information. The greater the level number value, the more detailed the information. The optional level number indicates the detail level of the information printed. Level numbers must be from 1 to 255 inclusive.

As with group numbers, the level number is determined by the application. Typically, developers use level numbers to filter out trace messages. Using the current example, the specification `%stdout(trc:user3:2:1)` indicates that all level 1 trace data from the “transaction in progress” (group 2) module of the “user3” service should be printed to standard output. Levels greater than 1 do not print. Thus, the following fragment prints only one line:

```
log: LogMgr = task.Part.LogMgr;  
-- Printed (level <= 1)  
  log.Put(SP_MT_DEBUG, SP_MT_USER3, TRANSACT_IN_PROGRESS, 1,  
    'Browsing account # ');  
  log.PutLine(SP_MT_DEBUG, SP_MT_USER3, TRANSACT_IN_PROGRESS,  
    1,acc.Number);  
-- Not printed (level > 1)  
  log.Put(SP_MT_DEBUG, SP_MT_USER3, TRANSACT_IN_PROGRESS,  
    2,acc.Owner);  
  log.Put(SP_MT_DEBUG, SP_MT_USER3, TRANSACT_IN_PROGRESS,  
    2,acc.LastChangeDate);
```

-Fm Flag (Memory Manager)

The `-fm` flag allows you to control the space used by the iPlanet UDS memory manager.

If you do not set the memory flags, iPlanet UDS uses defaults appropriate for the operating system. Note that you can change the memory configurations for a running application using the Environment Console and instruments defined on the OperatingSystem agent. See *iPlanet UDS System Management Guide* for information.

```
-fm(memory_option { : | = } number [, memory_option { : | = } number ])
```

To make this flag portable across the platforms supported by iPlanet UDS, do not include any spaces in this argument, and do not enclose any part of the argument in single quotes.

For UNIX and VMS, any arguments that contain parentheses must be enclosed by double quotes, as shown in the following example:

```
"-fm(n:4000,x:8000)"
```

In UNIX, if you include spaces in this argument, you need to enclose the values, including the parentheses, in single quotes. You do not need to use single quotes for any other platform. The following table describes the memory options. For options that refer to "pages," a page is 1024 bytes of memory.

Table B-2 Memory Options

Memory Option	Description
c	Specifies when the memory pool should be contracted. The value represents the percentage utilization of the active pages that will trigger a memory pool contraction. Range is 0 to 100. The default value is 80. This option is valid only for Windows 95.

Table B-2 Memory Options (*Continued*)

Memory Option	Description
d	<p>Sets the level of debugging information that is provided. The value is interpreted as a bit-mask of enabled options. The default is 0. The options are:</p> <p>1—Verify memory before every collect. This checks that all of the memory manager’s data structures are correct, that all pages containing user objects are correct, and that all pointers point to something legal.</p> <p>2—Verify memory after every collect.</p> <p>4—Verify memory before every allocation.</p> <p>8—Zero-Fill free memory.</p> <p>16—Pattern-Fill free memory.</p>
e	<p>Specifies when the memory pool should be expanded. The value represents the percentage utilization of the active pages that will trigger a memory pool expansion. Range is 0 to 100. The default value is 80.</p>
g	<p>Sets the percentage by which the memory pool is expanded. The default is 10 percent.</p>
i	<p>Incremental unit in pages for memory expansion or contracting. Range is 64 to 1,048,576. Default is 256.</p>
n	<p>Minimum number of pages managed by the memory manager. The value specifies the absolute minimum number of pages that will be allocated to the memory heap. Range is 1024 to 4194304. Must be less than the x memory option. The default value is 1024. See “Setting Maximum and Minimum Size of the Memory Heap” on page 183 for information about how n and x interact.</p>
r	<p>Sets the minimum number of free pages needed to perform a shutdown. Range is 64 to 1,024. The default is 64.</p>
u	<p>Target average memory use. The value specifies the target percentage utilization of the memory heap, calculated as the proportion of allocated pages that are active. Specify this as a percent of currently allocated memory. Legal range is 25 to 95. The default is 85.</p>
x	<p>Maximum number of pages managed by the memory manager. The value specifies the absolute maximum number of pages that can be allocated to the memory heap. Range is 1024 to 4194304. Must be greater than the n memory option. The default value is 8192. See “Setting Maximum and Minimum Size of the Memory Heap” on page 183 for information about how n and x interact.</p>

Setting Maximum and Minimum Size of the Memory Heap

To specify the maximum and minimum sizes of the iPlanet UDS memory heap, use the *n* and *x* memory options as described in the previous table.

For most operating systems, iPlanet UDS follows these rules to determine the actual maximum and minimum sizes, based on the values specified:

When you specify only the value of *n*:

- If *n* is less than 1024, *n* is set to 1024.
- If *n* is smaller than the default value of *x* (8192), then *x* is 8192.
- If *n* is larger than the default value of *x* (8192), then *x* is also set to *n*. The values of the maximum and minimum memory heap sizes in this case are equal.

When you specify only the value of *x*:

- If *x* is larger than the default value of *n* (1024), then *n* is 1024.
- If *x* is smaller than the default value of *n* (1024), then *n* is also set to *x*. The values of the maximum and minimum memory heap sizes in this case are equal.

When you specify both the *n* and *x* values:

- *x* is set to the larger value specified, whether by *x* or *n*. The value of *n* is always the value specified.

-Fm Flag (Memory Manager)

Commands for OS/390 Transaction Adapter Builder

Transaction Adapter Builder is a tool for developing transaction adapters that enable iPlanet UDS applications to share data with OS/390-hosted COBOL programs. It is implemented as a set of extensions to Fscript, which you use to define transactions in your COBOL code where data need to be shared with your iPlanet UDS application. The Transaction Adapter Builder Fscript commands are described in this appendix. (For full coverage of Transaction Adapter Builder see the *Using iPlanet UDS for OS/390*.)

Table C-1 Fscript Commands for Transaction Adapter Builder

Command	Description	See...
AddAPPCInfo	Specifies information about the connection between iPlanet UDS application and COBOL application.	page 187
AddExchange	Adds a new exchange method to the current transaction proxy.	page 187
AddInputArgument	Adds an input argument to the method signature of the current exchange method.	page 188
AddOutputArgument	Adds an output argument to the method signature of the current exchange method.	page 188
AddRecord	Adds a new COBOL record declaration.	page 189
AddTransactionProxy	Adds a new transaction proxy and set it as the current transaction proxy.	page 189
FindExchange	Sets the specified exchange method to be the current exchange method.	page 190

Table C-1 Fscript Commands for Transaction Adapter Builder *(Continued)*

Command	Description	See...
<code>FindTransactionProxy</code>	Sets the specified transaction proxy to be the current transaction proxy.	page 190
<code>GenerateTransactionProxy</code>	Processes the current transaction proxy and generate a <code>.PEX</code> file and a <code>.SCR</code> file from it.	page 190
<code>RemoveArgument</code>	Deletes the specified argument from the method signature of the current exchange method.	page 191
<code>RemoveExchange</code>	Deletes the specified exchange method from the current transaction proxy.	page 191
<code>RemoveRecord</code>	Deletes a COBOL record declaration from memory.	page 191
<code>RemoveTransactionProxy</code>	Deletes the specified transaction proxy from memory.	page 192
<code>ShowAllTransactionProxies</code>	Displays a list of all transaction proxies currently in memory.	page 192
<code>ShowRecords</code>	Displays the current record.	page 192
<code>ShowTransactionProxy</code>	Displays the current transaction proxy and all arguments passed to its exchange methods.	page 192
<code>SwitchTruncOption</code>	Toggles between “standard” and “binary” modes of numeric data storage in COBOL application.	page 193
<code>UserServiceObject</code>	Specifies that Transaction Adapter Builder should not create a new service object when generating the current transaction proxy, but should use specified service object.	page 193

AddAPPCInfo

You use the `AddAPPCInfo` command to specify information about the connection between your iPlanet UDS application and your COBOL application.

```
AddAPPCInfo [profile | tp | lu | mode]
```

Argument	Description
<i>profile</i>	Specifies the name of a profile from which a transaction proxy should get connection information for particular transaction programs within a larger OLTP system.
<i>tp</i>	Specifies APPC information for an entire OLTP system. Any transaction programs specified with <i>tp</i> override any transaction programs specified with the <i>profile</i> argument.
<i>lu</i>	Specifies the LU6.2 logical unit name of the OS/390 OLTP system.
<i>mode</i>	Specifies the SNA mode entry name.

AddExchange

The `AddExchange` command adds a new exchange method to the current transaction proxy.

```
AddExchange name
```

Argument	Description
<i>name</i>	Specifies the name of the exchange method.

AddInputArgument

The `AddInputArgument` command adds an input argument to the method signature of the current exchange method.

```
AddInputArgument name datatype
```

Argument	Description
<i>name</i>	Specifies an arbitrary name for the input argument. (This is the name by which your iPlanet UDS application will reference this argument in all transactions.)
<i>datatype</i>	Specifies the datatype of the new argument. (Datatypes must be declared with the <code>AddRecord</code> command, and all datatypes referenced in arguments must match those declared with <code>AddRecord</code> .)

AddOutputArgument

The `AddOutputArgument` command adds an output argument to the method signature of the current exchange method.

```
AddOutputArgument name datatype
```

Argument	Description
<i>name</i>	Specifies an arbitrary name for the output argument. (This is the name by which your iPlanet UDS application will reference this argument in all transactions.)
<i>datatype</i>	Specifies the datatype of the new argument. (Datatypes must be declared with the <code>AddRecord</code> command, and all datatypes referenced in arguments must match those declared with <code>AddRecord</code> .)

AddRecord

AddRecord *name*

The AddRecord command adds a COBOL record declaration *name*. When you use AddRecord Fscript switches to “line-entry” mode so that you can enter COBOL source code declarations. If you are using Fscript interactively you terminate each record declaration with the keyword `endrecord`. When Fscript is reading record declarations from a script line-entry mode is terminated when Fscript reaches the end of the script file.

Argument	Description
<i>name</i>	Specifies the name of the COBOL record declaration. Make sure you spell and capitalize <i>name</i> correctly. The Fscript parser will not recognize misspelled or incorrectly capitalized record types.

AddTransactionProxy

AddTransactionProxy *name*

The AddTransactionProxy command adds a new transaction proxy and sets it as the current transaction proxy.

Argument	Description
<i>name</i>	Specifies the name of the transaction proxy. This is the name given to the iPlanet UDS class generated from the transaction proxy.

FindExchange

`FindExchange name`

The `FindExchange` command sets the specified exchange method as the current exchange method.

Argument	Description
<i>name</i>	Specifies the name of the exchange method to be set as the current exchange method.

FindTransactionProxy

`FindTransactionProxy name`

The `FindTransactionProxy` command sets the specified transaction proxy as the current transaction proxy.

Argument	Description
<i>name</i>	Specifies the name of the transaction proxy to be set as the current transaction proxy.

GenerateTransactionProxy

`GenerateTransactionProxy [name]`

The `GenerateTransactionProxy` command processes the current transaction proxy and creates from it an `.SCR` file containing the `Fscript` commands used to create the transaction proxy, and a `.PEX` file containing generated iPlanet UDS code that implements the transaction proxy.

Argument	Description
[<i>name</i>]	Specifies an alternate base name for the <code>.SCR</code> and <code>.PEX</code> files generated from the transaction proxy.

RemoveArgument

`RemoveArgument` *argument*

The `RemoveArgument` command deletes the specified argument from the current exchange method.

Argument	Description
<i>argument</i>	Specifies the name of the argument to be deleted.

RemoveExchange

`RemoveExchange` *name*

The `RemoveExchange` command deletes the specified exchange method from the current transaction proxy.

Argument	Description
<i>name</i>	Specifies the name of the exchange method to be deleted.

RemoveRecord

`RemoveRecord` *name*

The `RemoveRecord` command deletes a previously added COBOL record declaration from memory.

Argument	Description
<i>name</i>	Specifies the name of the record declaration to be deleted.

RemoveTransactionProxy

`RemoveTransactionProxy name`

The `RemoveTransactionProxy` command deletes a transaction proxy while it is still in memory and before it has been generated.

Argument	Description
<i>name</i>	Specifies the name of the transaction proxy to be deleted.

ShowAllTransactionProxies

`ShowAllTransactionProxies`

The `ShowAllTransactionProxies` command displays a list of all transaction proxies currently in memory.

ShowRecords

`ShowRecords`

The `ShowRecords` command displays the current record.

ShowTransactionProxy

`ShowTransactionProxy`

The `ShowTransactionProxy` command displays the name of the current transaction proxy, all its exchange methods, all arguments passed to and from its exchange methods, and whatever APPC information you have added.

SwitchTruncOption

SwitchTruncOption

The SwitchTruncOption command toggles between the “standard” and “binary” modes of numeric data storage in your COBOL programs.

UseServiceObject

UseServiceObject *name*

The UseServiceObject command enables you to specify that the Transaction Adapter Builder should not generate a new service object for your transaction adapter, but instead should use an existing service object.

Argument	Description
<i>name</i>	Specifies the name of the existing service object you want the Transaction Adapter Builder to use.

Index

A

- AddAPPCInfo command 187
- AddExchange command 187
- AddInputArgument command 188
- AddOutputArgument command 188
- AddPath command 46
- AddProjToLib command 48
- AddRecord command 189
- AddSupplierPlan command 49
- AddTransactionProxy command 189
- Aliases
 - expansions, showing 149
 - listing 146
 - removing 114
 - setting 46
- Applets 129
- Application components
 - See also* Components
 - assigning to a node 50
 - setting as compiled 127
 - setting current 77
 - unassigning from a node 156
- Application configurations. *See* Configurations
- Application distributions, making 98
- Application models
 - checking out 56
 - creating 105
 - current, setting 78
 - importing 82
 - listing 93

Applications

- client testing 155
 - distributed testing 122
 - partitioning 111
 - testing 120, 122
- AssignAppComp command 50
- AttachToCentral command 51

B

- BackupRepos command 52
- BranchAllComps command 52
- BranchComp command 53
- Branching
 - all components 52
 - one component 53
 - plans 53
- BranchPlan command 53
- Business models
 - branching 53
 - checking out 56
 - creating 105
 - current, setting 78
 - importing 82
 - listing 93

C

Cd command 54
 Checking out

- all components 55
- one component 55
- plans 56

 Checkout locks

- components 56
- definition 56
- on all components 55
- plans 56
- removing from component 158
- removing from plan 159

 CheckoutAllComps command 55
 CheckoutComp command 55
 CheckoutPlan command 56
 Chmod command 57
 Classes

- See also* Components
- exporting 72
- importing 81

 Client partitions

- marking as applet 129

 Close command 58
 CollectMem command 58
 Command alias 46
 CommentOff command 58
 CommentOn command 59
 Commit command 59
 Compatibility level, increasing 87
 Compile command 59
 CompilePlan command 61
 CompileWorkspace command 62
 Components

- See also* Application components
- branches, discarding 157
- branching 52, 53
- checking out 55
- checkout lock, unlocking 158
- compiling 59, 81
- integration information, showing 147
- listing in workspace 89, 90
- removing from project 115

- removing from workspace 159
- renaming 119

Configurations

- examining 146
- modifying 50
- removing 114

 CopyFile command 62
 Cp command 63
 Current application, definition 27
 Current configuration, definition 27

D

DCE, using service objects 142
 Delay command 63
 Detached shadows

- attaching 51
- backing up 52
- plans, renaming 106
- projects, renaming 107

 DetachFromCentral command 64
 Directories

- adding to search path 46
- changing 54
- copying 62, 63
- creating 102
- files, listing 65

 Directory command 65
 Directory search paths

- adding directories 46
- displaying 151
- setting 135, 141

 DisableAppComp command 66
 Distributions, making 98
 Duplicate command 67

E

EnableAppComp command 67
 Encina, using service objects 142

Environment variables
 directory paths, specifying 29
 value, getting 112
 value, setting 130

Environments
 active, setting as current 76
 current, setting 77
 examining 148
 listing 91

ExcludePlan command 68

ExecCmd command 69

Exit command 71

ExitIfNoEnvMgr command 71

ExitStatus command 71

ExportClass command 72

Exporting

- classes 72
- interfaces 72
- plans 73
- projects 73
- projects as templates 74
- Window subclass 75
- workspaces 76

ExportPlan command 73

ExportTemplate command 74

ExportWindowClass command 75

ExportWorkspace command 76

F

Files

- copying 62, 63, 67
- deleting 116, 120
- directory contents, listing 65, 92, 97
- editing 165
- local file naming 162
- permissions, changing 57
- portable file naming 163
- print contents 92
- renaming 104
- searching for text 126
- searching in a directory path 166
- writing into a file 113

FindActEnv command 76

FindAppComp command 77

FindEnv command 77

FindExchange command 190

FindPlan command 78

FindTransactionProxy command 190

ForceWorkspaceUnreserved command 79

Fscript

- command summary 167
- commands listed by task 29
- help information 80
- leaving 71, 113
- overview 21
- setting the output file 131

fscript command 22–26

G

Garbage collection 58

GenerateTransactionProxy command 190

H

Help command 80

Help for Fscript commands 80

I

ImportClass command 81

Importing

- classes 81
- interfaces 81
- plans 74, 82
- projects 74, 83
- workspaces 84

ImportPlan command 82

ImportWorkspace command 84

Include command 85

- IncludePublicPlan command 86
- IncreaseCompatLevel command 87
- IntegrateWorkspace command 87
- Integration history
 - component 147
 - plan 152
 - workspace 149
- Interfaces
 - See also Components
 - exporting 72
 - importing 81

L

- Library configurations
 - examining 146
 - projects, adding 48
 - projects, removing 116
- Library distributions 98
- Library projects
 - adding to a library 48
 - assigning to a node 50
 - current, setting 77
 - partitioning 111
 - removing from a library 116
 - setting as compiled 127
 - type, setting 139
 - unassigning from a node 156
- ListChangesInWorkspace command 89
- ListComps command 90
- ListEnvs command 91
- ListFile command 92
- ListFiles command 92
- Listing files
 - Directory command 65
 - ListFiles command 92
 - Ls command 97
- ListPlans command 93
- ListPublicPlans command 94
- ListServiceApps command 95
- ListTestApps command 96

- ListWorkspaces command 97
- Local file naming 162
- Logger flags, setting 102
- Ls command 97

M

- Main project, definition 27
- MakeAppDistrib command 98
- Memory
 - getting statistics 100
 - reclamation 58
- MemStats command 100
- MkDir command 102
- Model node names, setting 26
- ModLogger command 102
- MoveServiceToPart command 103
- Mv command 104

N

- NewPart command 105
- NewPlan command 105
- NewProj command 107
- NewWorkspace command 108
- Nodes, setting 26

O

- ObjectBroker, using service objects 142
- OLE, using service objects 142
- Open command 109
- Operating system commands
 - invoking 69
 - shell, starting 145

P

Partition command 111

Partitioning

- applications or libraries 111
- preferred node, defining 137

Partitions

- assigning 50
- creating 105
- current, setting 77
- disabling 66
- enabling 67
- passing arguments on start up 131
- reference 164
- remote servers, stopping 154
- remote, starting 122
- replication count, setting 133
- setting as compiled 127
- unassigning from a node 156

Passwords

- setting 134
- using in workspaces 109

PDF files, viewing and searching 18

Plans

- branching 53
- checking out 56
- checkout lock, unlocking 159
- compiling 61
- creating 105
- current, setting 78
- deleting from workspace 68
- discarding a branch 158
- exporting 73
- importing 74, 82
- including in a workspace 86
- integration information, showing 152
- listing 93, 94
- removing from the repository 117
- supplier plans, excluding 117
- suppliers, adding 49

Portable file naming 163

PrintEnv command 112

Projects

- adding to a library in Fscript 48
- compatibility level, increasing 87
- compiling 61

- components, branching all 52
- components, checking out all 55
- components, compiling 59, 81
- components, removing 115
- creating 105, 107
- current, setting 78
- examining 151
- exporting 73
- importing 74, 82, 84
- including in a workspace 86
- integration information, showing 147
- listing 93, 94
- removing from a library 116
- removing from the repository 117
- reverting 120
- running 120
- setting as restricted 137
- startup class and method, setting 138
- supplier projects, excluding 117
- suppliers, adding 49
- testing 122
- type, setting 139

Pwd command 112

Q

Quit command 113

R

ReadIntoFile command 113

Reference partitions

- defining 164
- installed service objects, listing 95

Remote servers

- starting 122
- stopping 154

RemoveAlias command 114

RemoveArgument command 191

RemoveComp command 115

RemoveConf command 114

- RemoveExchange command 191
 - RemoveFile command 116
 - RemoveProjFromLib command 116
 - RemovePublicPlan command 117
 - RemoveRecord command 191
 - RemoveSupplierPlan command 117
 - RemoveTransactionProxy command 192
 - RemoveWorkspace command 118
 - RenameComp command 119
 - Repeat command 119
 - Repositories
 - backing up 52
 - current, setting 140
 - examining 152
 - opening 109
 - passwords, setting 134
 - plans, listing all 94
 - plans, removing 117
 - projects, listing all 94
 - projects, removing 117
 - setting 110
 - setting on fscript command 25
 - workspaces, deleting 118
 - Restricted projects, setting 137
 - Return value, setting 71
 - RevertProj command 120
 - Rm command 120
 - Run command 120
 - RunDistrib command 122
 - RunFile command 123
- S**
- Save command 124
 - SCMExportComponent command 124
 - SCMExportProject command 125
 - Script command 126
 - Script files
 - comments, printing 58, 59
 - creating 126
 - exceptions, printing 153
 - operating system command shell, starting 145
 - repeating commands 119
 - running from the fscript command 26
 - running operating system commands 69
 - saving commands 126
 - stepping through commands interactively 154
 - Script, running using Include command 85
 - Search paths
 - adding directories 46
 - setting 135, 141
 - SearchFile command 126
 - Service objects
 - defining reference partition 164
 - external systems, supporting 142
 - installed, listing 95
 - moving to another partition 103
 - SetAppCompCompiled command 127
 - SetAppID command 128
 - SetAppletFlag command 129
 - SetDefault command 130
 - SetEnv command 130
 - SetOutFile command 131
 - SetPartArgs command 131
 - SetPartRepCount command 133
 - SetPassWord command 134
 - SetPath command 135
 - SetPrefNode command 137
 - SetProjRestricted command 137
 - SetProjStart command 138
 - SetProjType command 139
 - SetRepos command 140
 - SetSearchPath command 141
 - SetServiceEOSAttr command 143
 - SetServiceEOSInfo command 142
 - SetWorkspace command 144
 - Shadow repositories
 - attaching 51
 - detaching 64
 - saving changes 124
 - Shell command 145

ShowAlias command 146
 ShowAllTransactionProxies command 192
 ShowApp command 146
 ShowAppID command 147
 ShowCompHistory command 147
 ShowEnv command 148
 ShowExpansions command 149
 ShowIntegrations command 149
 ShowLockedWorkspaces command 150
 ShowPath command 151
 ShowPlan command 151
 ShowPlanHistory command 152
 ShowRecords command 192
 ShowReposInfo command 152
 ShowTransactionProxy command 192
 ShowWorkspace command 153
 SilentOff command 153
 SilentOn command 153
 Step command 154
 StopRemoteParts command 154
 Supplier plans

- adding 49
- excluding from plan 117

 Supplier projects

- adding 49
- excluding from project 117

 SwitchTruncOption command 193

T

Task, pausing execution 63
 TestApp command 155
 Testing

- applications 120, 122
- code fragment 123
- distributed applications 155
- listing partitioned applications 96

 TOOL code

- running projects as distributed applications 122
- testing 120, 122
- testing fragments 123

U

UnassignAppComp command 156
 UndoBranchComp command 157
 UndoBranchPlan command 158
 UndoCheckoutComp command 158
 UndoCheckoutPlan command 159
 UndoRemoveComp command 159
 UnlockWorkspace command 160
 UpdateWorkspace command 161
 UseLocal command 162
 UsePortable command 163
 UseServiceFromApp command 164
 UseServiceObject command 193

V

ValidatePlan command 165
 Vi command 165

W

WhichFile command 166
 Window, exporting 75
 Working directories

- changing 54, 130
- examining 112

 Workspace

- current, setting 144

 Workspaces

- closing 58
- committing changes 59
- compiling 62
- components, removing 159
- creating 108
- deleting 118
- exporting 76
- importing 84
- integrating 87
- integration history 149

Workspaces (*continued*)

- listing components 89, 90
- locks, listing 150
- locks, removing 79, 160
- opening 109
- passwords, setting 134
- plans, deleting 68
- setting 110
- setting on fscript command 25
- showing 153
- updating 161

X

XML servers

- SetServiceEOSAttr command 143