



IE 3000 Switch Bootloader Commands

This appendix describes the bootloader commands on the IE3000 switch.

During normal bootloader operation, you are not presented with the bootloader command-line prompt. You gain access to the bootloader command line if the switch is set to manually boot up, if an error occurs during power-on self test (POST) DRAM testing, or if an error occurs while loading the operating system (a corrupted Cisco IOS image). You can also access the bootloader if you have lost or forgotten the switch password.



The default switch configuration allows an end user with physical access to the switch to recover from a lost password by interrupting the bootup process while the switch is powering up and then entering a new password. The password recovery disable feature allows the system administrator to protect access to the switch password by disabling part of this functionality and allowing the user to interrupt the bootup process only by agreeing to set the system back to the default configuration. With password recovery disabled, the user can still interrupt the bootup process and change the password, but the configuration file (config.text) and the VLAN database file (vlan.dat) are deleted. For more information, see the software configuration guide for this release.

To access the boot loader, follow these steps:

- Step 1 Press and hold the Express Setup button while the switch is powering on.
- **Step 2** Release the **Express Setup** button when the LEDs (System, Alarm, and Setup) turn red. The LEDs turn off.
- Step 3 Press and hold the Express Setup button again.
- Step 4 Release the Express Setup button when the LEDs turn red again.

boot

Use the **boot** bootloader command to load and boot up an executable image and to enter the command-line interface.

boot [**-post** | **-n** | **-p** | *flag*] *filesystem:/file-url* ...

Syntax Description	-post	(Optional) Run the loaded image with an extended or comprehensive power-on self-test (POST). Using this keyword causes POST to take longer to complete.
	-n	(Optional) Pause for the Cisco IOS debugger immediately after launching.
	-p	(Optional) Pause for the JTAG debugger right after loading the image.
	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.
	lfile-url	(Optional) Path (directory) and name of a bootable image. Separate image names with a semicolon.
Defaults	variable. If this can by performing	npts to automatically boot up the system by using information in the BOOT environment variable is not set, the switch attempts to load and execute the first executable image it ng a recursive, depth-first search throughout the flash file system. In a depth-first search ach encountered subdirectory is completely searched before continuing the search in the ry.
Command Modes	Bootloader	
Command History	Release	Modification
	12.2(44)EX	This command was introduced.
Usage Guidelines	the system by us	the boot command without any arguments, the switch attempts to automatically boot up sing the information in the BOOT environment variable, if any. If you supply an image <i>e-url</i> variable, the boot command attempts to boot up the specified image.
		botloader boot command options, they are executed immediately and apply only to the ler session. These settings are not saved for the next bootup operation.
	Filenames and d	lirectory names are case sensitive.
Examples	1	nows how to boot up the switch using the <i>new-image.bin</i> image:
	switch: boot f	lash:/new-images/new-image.bin
	After entering th	nis command, you are prompted to start the setup program.

Related Commands	Command	Description
	set	Sets the BOOT environment variable to boot a specific image when the
		BOOT keyword is appended to the command.

cat

Use the **cat** bootloader command to display the contents of one or more files.

cat filesystem:/file-url ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.		
	lfile-url	Path (directory) and name of the files to display. Separate each filename with a space.		
Command Modes	Bootloader			
Command History	Release	Modification		
	12.2(44)EX	This command was introduced.		
Usage Guidelines	Filenames and	directory names are case sensitive.		
	If you specify	a list of files, the contents of each file appears sequentially.		
Examples	This example shows how to display the contents of a backup configuration file with sample output:			
	switch: cat flash:config_backup			
	1			
	version 12.2 no service pad			
	no service pad service timestamps debug datetime msec			
	service timestamps log datetime msec			
	no service password-encryption			
	service internal !			
	hostname Switch			
	switch: cat flash:/ies-lanbase-mz.122-44.EX/info			
		ix: lanbase-122-44.EX		
	version_directory: ies-lanbase-mz.122-44.EX image_system_type_id: 0x00000000			
		les-lanbase-mz.122-44.EX.bin		
	ios_image_file_size: 6369792			
	total_image_file_size: 11878912			
	image_feature: LAYER_2 MIN_DRAM_MEG=64 image_family: IES			
	stacking_numk			
	board_ids: 0x00000090 0x00000091			
	info_end:			

Related Commands

Command	Description
more	Displays the contents of one or more files.
type	Displays the contents of one or more files.

сору

Use the **copy** bootloader command to copy a file from a source to a destination.

copy [-**b** *block-size*] *filesystem:*/*source-file-url filesystem:*/*destination-file-url*

	-b block-size	(Optional) This option is used only for internal development and testing.
	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.
	Isource-file-url	Path (directory) and filename (source) to be copied.
	Idestination-file-url	Path (directory) and filename of the destination.
Defaults	The default block size	is 4 KB.
Command Modes	Bootloader	
Command History	Release	Modification
-	12.2(44)EX	This command was introduced.
	-	etes, slashes, quotes, semicolons, or colons.
	slashes, quotes, semico	
	slashes, quotes, semico	
Examples	slashes, quotes, semico If you are copying a fil	lons, or colons.
Examples	slashes, quotes, semico If you are copying a fil This example show how	lons, or colons. e to a new directory, the directory must already exist.
Examples	slashes, quotes, semico If you are copying a fil This example show how switch: copy flash:t	lons, or colons. e to a new directory, the directory must already exist. w to copy a file at the root:
Examples	slashes, quotes, semico If you are copying a fil This example show how switch: copy flash:t File "flash:test1.te	<pre>dons, or colons. e to a new directory, the directory must already exist. w to copy a file at the root: est1.text flash:test4.text</pre>
Examples Related Commands	slashes, quotes, semico If you are copying a fil This example show how switch: copy flash:t File "flash:test1.te	<pre>dons, or colons. e to a new directory, the directory must already exist. w to copy a file at the root: est1.text flash:test4.text xt" successfully copied to "flash:test4.text"</pre>

delete

Use the **delete** bootloader command to delete one or more files from the specified file system.

delete *filesystem:lfile-url* ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.
	lfile-url	Path (directory) and filename to delete. Separate each filename with a space.
Command Modes	Bootloader	
Command History	Release	Modification
	12.2(44)EX	This command was introduced.
Usage Guidelines		lirectory names are case sensitive. npts you for confirmation before deleting each file.
Examples	This example sh	nows how to delete two files:
	Are you sure y File "flash:te Are you sure y	flash:test2.text flash:test5.text ou want to delete "flash:test2.text" (y/n)?y st2.text" deleted ou want to delete "flash:test5.text" (y/n)?y st2.text" deleted
	You can verify t	hat the files were deleted by entering the dir flash: bootloader command.
Related Commands	Command	Description
	сору	Copies a file from a source to a destination.

dir

Use the **dir** bootloader command to display a list of files and directories on the specified file system.

dir filesystem:/file-url ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.	
	lfile-url	(Optional) Path (directory) and directory name whose contents you want to display. Separate each directory name with a space.	
Command Modes	Bootloader		
Command History	Release	Modification	
	12.2(44)EX	This command was introduced.	
Usage Guidelines	Directory names	are case sensitive.	
Examples	This example sho	ows how to display the files in flash memory:	
	switch: dir fla Directory of fl		
	3 -rwx 11 -rwx 21 -rwx	<pre>1839 Mar 01 2002 00:48:15 config.text 1140 Mar 01 2002 04:18:48 vlan.dat 26 Mar 01 2002 00:01:39 env_vars</pre>	
	9 drwx	768 Mar 01 2002 23:11:42 html	
	16 -rwx 14 -rwx	1037 Mar 01 2002 00:01:11 config.text 1099 Mar 01 2002 01:14:05 homepage.htm	
	22 -rwx 17 drwx	96 Mar 01 2002 00:01:39 system_env_vars 192 Mar 06 2002 23:22:03 <i>imnage-name</i>	
	17 drwx 192 Mar 06 2002 23:22:03 Inurage-name		
	Table A-1 descril	bes the fields in the display.	
	Table A-1	dir Field Descriptions	
	Field	Description	
	2	Index number of the file.	
	-rwx	File permission, which can be any or all of the following:	
		• d—directory	

• r—readable

Table A-1dir Field Descriptions (continued)

Field	Description
1644045	Size of the file.
<date></date>	Last modification date.
env_vars	Filename.

Related Commands

;	Command	Description
	mkdir	Creates one or more directories.
	rmdir	Removes one or more directories.

flash_init

Use the **flash_init** bootloader command to initialize the flash file system.

flash_init

Syntax Description	This command has	no arguments or keywords.
Defaults	The flash file system	m is automatically initialized during normal system operation.
Command Modes	Bootloader	
Command History	Release	Modification
	12.2(44)EX	This command was introduced.

Usage Guidelines During the normal bootup process, the flash file system is automatically initialized.

Use this command to manually initialize the flash file system. For example, you use this command during the recovery procedure for a lost or forgotten password.

format

Use the **format** bootloader command to format the specified file system and destroy all data in that file system.

format filesystem:

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.
Command Modes	Bootloader	
Command History	Release	Modification
	12.2(44)EX	This command was introduced.
Guidelines		
Â		
Caution	Use this comma	nd with care; it destroys all data on the file system and renders your system unus

fsck

Use the **fsck** bootloader command to check the file system for consistency.

fsck [-test | -f] filesystem:

Syntax Description	-test	(Optional) Initialize the file system code and perform extra POST on flash memory. An extensive, nondestructive memory test is performed on every byte that makes up the file system.
	-f	(Optional) Initialize the file system code and perform a fast file consistency check. Cyclic redundancy checks (CRCs) in the flashfs sectors are not checked.
	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.
Defaults	No file systen	n check is performed.
Command Modes	Bootloader	
Command History	Release	Modification
	12.2(44)EX	This command was introduced.
Usage Guidelines	To stop an in- the power.	progress file system consistency check, disconnect the switch power and then reconnect
Usage Guidelines Examples	the power.	progress file system consistency check, disconnect the switch power and then reconnect shows how to perform an extensive file system check on flash memory:

help

Use the **help** bootloader command to display the available commands.

help

Syntax Description	This command has no	arguments or keywords.
--------------------	---------------------	------------------------

Command Modes Bootloader

Command History	Release	Modification
	12.2(44)EX	This command was introduced.

Usage Guidelines You can also use the question mark (?) to display a list of available bootloader commands.

memory

Use the **memory** bootloader command to display memory heap utilization information.

memory

Syntax Description This command has no arguments or keywords.

Command Modes Bootloader

 Release
 Modification

 12.2(44)EX
 This command was introduced.

Examples

This example shows how to display memory heap utilization information:

switch: memory Text: 0x00700000 - 0x0071cf24 (0x0001cf24 bytes) Rotext: 0x00000000 - 0x00000000 (0x00000000 bytes) 0x0071cf24 - 0x00723a0c (0x00006ae8 bytes) Data: Bss: 0x0072529c - 0x00746f94 (0x00021cf8 bytes) 0x00756f98 - 0x00800000 (0x000a9068 bytes) Heap: Bottom heap utilization is 22 percent. Top heap utilization is 0 percent. Total heap utilization is 22 percent. Total bytes: 0xa9068 (692328) Bytes used: 0x26888 (157832) Bytes available: 0x827e0 (534496) Alternate heap utilization is 0 percent.

Total alternate heap bytes: 0x6fd000 (7327744) Alternate heap bytes used: 0x0 (0) Alternate heap bytes available: 0x6fd000 (7327744)

Table A-2 describes the fields in the display.

Field	Description
Text	Beginning and ending address of the text storage area.
Rotext	Beginning and ending address of the read-only text storage area. This part of the data segment is grouped with the Text entry.
Data	Beginning and ending address of the data segment storage area.
Bss	Beginning and ending address of the block started by symbol (Bss) storage area. It is initialized to zero.
Неар	Beginning and ending address of the area in memory that memory is dynamically allocated to and freed from.

mkdir

Use the **mkdir** bootloader command to create one or more new directories on the specified file system. **mkdir** *filesystem:/directory-url* ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.	
	Idirectory-url	Name of the directories to create. Separate each directory name with a space.	
Command Modes	Bootloader		
Command History	Release	Modification	
	12.2(44)EX	This command was introduced.	
Usage Guidelines	•	e case sensitive. e limited to 45 characters between the slashes (/); the name cannot contain control deletes, slashes, quotes, semicolons, or colons.	
Examples	switch: mkdir fla:	s how to make a directory called Saved_Configs: sh:Saved_Configs Saved_Configs" created	
	This example shows how to make two directories: <pre>switch: mkdir flash:Saved_Configs1 flash:Test Directory "flash:Saved_Configs1" created</pre>		
	Directory "flash:Test" created You can verify that the directory was created by entering the dir <i>filesystem</i> : bootloader command.		
Related Commands	Command	Description	

dir	Displays a list of files and directories on the specified file system.
rmdir	Removes one or more directories from the specified file system.

more

Use the more bootloader command to display the contents of one or more files.

more filesystem:/file-url ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.	
	lfile-url	Path (directory) and name of the files to display. Separate each filename with a space.	
Command Modes	Bootloader		
Command History	Release	Modification	
	12.2(44)EX	This command was introduced.	
Usage Guidelines		ectory names are case sensitive. t of files, the contents of each file appears sequentially.	
Examples	This example shows how to display the contents of the configuration backup file:		
		sh:/ies-lanbase-mz.122-44.EX/info	
	version_suffix: lanbase-122-44.EX version_directory: ies-lanbase-mz.122-44.EX		
	<pre>image_system_type_id: 0x00000000 image_name: ies-lanbase-mz.122-44.EX.bin ios_image_file_size: 6369792</pre>		
	total_image_file_size: 11878912		
	image_feature: LAYER_2 MIN_DRAM_MEG=64 image_family: IES		
	stacking_number: 1.37 board_ids: 0x00000090 0x00000091		
	info_end:	00030 0x00000031	
Related Commands	Command	Description	

Related Commands	Command	Description
	cat	Displays the contents of one or more files.
	type	Displays the contents of one or more files.

rename

Use the **rename** bootloader command to rename a file.

rename filesystem:/source-file-url filesystem:/destination-file-url

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.	
	Isource-file-url	Original path (directory) and filename.	
	Idestination-file-url	New path (directory) and filename.	
Command Modes	Bootloader		
Command History	Release	Modification	
	12.2(44)EX	This command was introduced.	
Usage Guidelines	Filenames and directory names are case sensitive. Directory names are limited to 45 characters between the slashes (/); the name cannot contain control		
	characters, spaces, deletes, slashes, quotes, semicolons, or colons.		
	Filenames are limited slashes, quotes, semic	to 45 characters; the name cannot contain control characters, spaces, deletes, colons, or colons.	
Examples	This example shows a	a file named <i>config.text</i> being renamed to <i>config1.text</i> :	
	switch: rename flash:config.text flash:config1.text		
	You can verify that th	e file was renamed by entering the dir <i>filesystem</i> : bootloader command.	
Related Commands	Command	Description	
	сору	Copies a file from a source to a destination.	

reset

Use the **reset** bootloader command to perform a hard reset on the system. A hard reset is similar to power-cycling the switch, clearing the processor, registers, and memory.

reset

Syntax Description This command has no arguments or keywords.

Command Modes Bootloader

 Release
 Modification

 12.2(44)EX
 This command was introduced.

Examples This example shows how to reset the system: switch: reset Are you sure you want to reset the system (y/n)?y System resetting...

Related Commands	Command	Description
	boot	Loads and boots up an executable image and enters the command-line interface.

Use the **rmdir** bootloader command to remove one or more empty directories from the specified file system.

rmdir *filesystem:/directory-url* ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.
Officer Description	Idirectory-url	Path (directory) and name of the empty directories to remove. Separate each directory name with a space.
Command Modes	Bootloader	
Command History	Release	Modification
	12.2(44)EX	This command was introduced.
Usage Guidelines	contain control ch Before removing	are case sensitive and limited to 45 characters between the slashes (/); the name cannot haracters, spaces, deletes, slashes, quotes, semicolons, or colons. a directory, you must first delete all the files in the directory.
Examples		ots you for confirmation before deleting each directory. ws how to remove a directory: lash:Test
	You can verify the	at the directory was deleted by entering the dir <i>filesystem</i> : bootloader command.
Related Commands	Command	Description
	dir	Displays a list of files and directories on the specified file system.
	mkdir	Creates one or more new directories on the specified file system.

set

Use the **set** bootloader command to set or display environment variables, which can be used to control the bootloader or any other software running on the switch.

set variable value

Syntax Description	variable value	Use one of these keywords for variable and value:
		MANUAL_BOOT —Decides whether the switch automatically or manually boots up.
		Valid values are 1, yes, 0, and no. If it is set to no or 0, the bootloader attempts to automatically boot up the system. If it is set to anything else, you must manually boot up the switch from the bootloader mode.
		BOOT <i>filesystem:lfile-url</i> —A semicolon-separated list of executable files to try to load and execute when automatically booting up.
		If the BOOT environment variable is not set, the system attempts to load and execute the first executable image it can find by using a recursive, depth-first search through the flash: file system. If the BOOT variable is set but the specified images cannot be loaded, the system attempts to boot up the first bootable file that it can find in the flash file system.
		ENABLE_BREAK —Decides whether the automatic bootup process can be interrupted by using the Break key on the console.
		Valid values are 1, yes, on, 0, no, and off. If it is set to 1, yes, or on, you can interrupt the automatic bootup process by pressing the Break key on the console after the flash file system has initialized.
		HELPER <i>filesystem:Ifile-url</i> —A semicolon-separated list of loadable files to dynamically load during the bootloader initialization. Helper files extend or patch the functionality of the bootloader.
		PS1 <i>prompt</i> —A string that is used as the command-line prompt in bootloader mode.
		CONFIG_FILE flash: <i>/file-url</i> —The filename that Cisco IOS uses to read and write a nonvolatile copy of the system configuration.
		BAUD <i>rate</i> —The rate in bits per second (bps) used for the console. The Cisco IOS software inherits the baud rate setting from the bootloader and continues to use this value unless the configuration file specifies another setting. The range is from 0 to 4294967295 bps. Valid values are 50, 75, 110, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600, 14400, 19200, 28800, 38400, 56000, 57600, 115200, and 128000.
		The most commonly used values are 300, 1200, 2400, 9600, 19200, 57600, and 115200.
		HELPER_CONFIG_FILE <i>filesystem:lfile-url</i> —The name of the configuration file to be used by the Cisco IOS helper image. If this is not set, the file specified by the CONFIG_FILE environment variable is used by all versions of Cisco IOS that are loaded, including the helper image. This variable is used only for internal development and testing.

Defaults

The environment variables have these default values:
MANUAL_BOOT: No (0)
BOOT: Null string
ENABLE_BREAK: No (Off or 0) (the automatic bootup process cannot be interrupted by pressing the Break key on the console).
HELPER: No default value (helper files are not automatically loaded).
PS1: switch:
CONFIG_FILE: config.text
BAUD: 9600 bps
HELPER_CONFIG_FILE: No default value (no helper configuration file is specified).
SWITCH_NUMBER: 1
SWITCH_PRIORITY: 1

Note

Environment variables that have values are stored in the flash file system in various files. The format of these files is that each line contains an environment variable name and an equal sign followed by the value of the variable. A variable has no value if it is not listed in this file; it has a value if it is listed in the file even if the value is a null string. A variable that is set to a null string (for example, "") is a variable with a value. Many environment variables are predefined and have default values.

Command Modes Bootloader

Command History	Release	Modification
	12.2(44)EX	This command was introduced.
Usage Guidelines	Environment varial	bles are case sensitive and must be entered as documented.
	Environment varial	bles that have values are stored in flash memory outside of the flash file system.
	Under normal circu	umstances, it is not necessary to alter the setting of the environment variables.
	The MANUAL_BO	DOT environment variable can also be set by using the boot manual global nand.
	The BOOT environ configuration com	ment variable can also be set by using the boot system <i>filesystem:lfile-url</i> global nand.
	The ENABLE_BR	EAK environment variable can also be set by using the boot enable-break global nand.
	The HELPER environ configuration com	ronment variable can also be set by using the boot helper <i>filesystem:/file-url</i> global nand.
	The CONFIG_FIL	E environment variable can also be set by using the boot config-file flash: / <i>file-url</i> n command.
		NFIG_FILE environment variable can also be set by using the boot helper-config-file global configuration command.

The HELPER_CONFIG_FILE environment variable can also be set by using the **boot helper-config-file** *filesystem:lfile-url* global configuration command.

The bootloader prompt string (PS1) can be up to 120 printable characters except the equal sign (=).

Examples This example shows how to change the bootloader prompt: switch: set PS1 loader: loader:

You can verify your setting by using the set bootloader command.

Related Commands	Command	Description
	unset	Resets one or more environment variables to its previous setting.

type

Use the type bootloader command to display the contents of one or more files.

type filesystem:/file-url ...

Syntax Description	filesystem:	Alias for a flash file system. Use flash: for the system board flash device.	
	lfile-url	Path (directory) and name of the files to display. Separate each filename with a space.	
Command Modes	Bootloader		
Command History	Release	Modification	
	12.2(44)EX	This command was introduced.	
Usage Guidelines	Filenames and dire	ectory names are case sensitive.	
	If you specify a list of files, the contents of each file appears sequentially.		
Examples	This example shows how to display the contents of two files:		
	switch: type flash:config_backup		
	!		
	version 12.2		
	no service pad		
	service timestamps debug datetime msec		
	service timestamps log datetime msec no service password-encryption		
	service internal		
	hostname Switch		
	<pre>switch: type flash:/ies-lanbase-mz.122-44.EX/info</pre>		
	version_suffix: lanbase-122-44.EX		
		y: ies-lanbase-mz.122-44.EX	
	image_system_type_id: 0x00000000		
	image_name: ies-lanbase-mz.122-44.EX.bin ios_image_file_size: 6369792		
	total_image_file_size: 11878912		
	image_feature: LAYER_2 MIN_DRAM_MEG=64		
	<pre>image_family: IES</pre>		
	stacking_number: 1.37		
	board_ids: 0x00000090 0x00000091		
	info_end:		

Related Commands

Command	Description
cat	Displays the contents of one or more files.
more	Displays the contents of one or more files.

unset

Use the **unset** bootloader command to reset one or more environment variables.

unset variable ...

Syntax Description	variable	Use one of these keywords for variable:
		MANUAL_BOOT —Decides whether the switch automatically or manually boots up.
		BOOT —Resets the list of executable files to try to load and execute when automatically booting up. If the BOOT environment variable is not set, the system attempts to load and execute the first executable image it can find by using a recursive, depth-first search through the flash file system. If the BOOT variable is set but the specified images cannot be loaded, the system attempts to boot up the first bootable file that it can find in the flash file system.
		ENABLE_BREAK —Decides whether the automatic bootup process can be interrupted by using the Break key on the console after the flash file system has been initialized.
		HELPER —A semicolon-separated list of loadable files to dynamically load during the bootloader initialization. Helper files extend or patch the functionality of the bootloader.
		PS1 —A string that is used as the command-line prompt in bootloader mode.
		CONFIG_FILE —Resets the filename that Cisco IOS uses to read and write a nonvolatile copy of the system configuration.
		BAUD —Resets the rate in bits per second (bps) used for the console. The Cisco IOS software inherits the baud rate setting from the bootloader and continues to use this value unless the configuration file specifies another setting.
		HELPER_CONFIG_FILE —Resets the name of the configuration file to be used by the Cisco IOS helper image. If this is not set, the file specified by the CONFIG_FILE environment variable is used by all versions of Cisco IOS that are loaded, including the helper image. This variable is used only for internal development and testing.
Command Modes	Bootloader	

Command History	Release	Modification	
	12.2(44)EX	This command was introduced.	
Usage Guidelines	Under normal circumstances, it is not necessary to alter the setting of the environment variables.		
	The MANUAL_BOOT environment variable can also be reset by using the no boot manual glob		

configuration command.

 The BOOT environment variable can also be reset by using the no boot system global configuration command.

 The ENABLE_BREAK environment variable can also be reset by using the no boot enable-break global configuration command.

 The HELPER environment variable can also be reset by using the no boot helper global configuration command.

 The CONFIG_FILE environment variable can also be reset by using the no boot config-file global configuration command.

 The HELPER_CONFIG_FILE environment variable can also be reset by using the no boot config-file global configuration command.

 The HELPER_CONFIG_FILE environment variable can also be reset by using the no boot helper-config-file global configuration command.

 The bootloader prompt string (PS1) can be up to 120 printable characters except the equal sign (=).

 Examples
 This example shows how to reset the prompt string to its previous setting:

 switch:
 uset PS1

 switch:
 Deviction

Related Commands	Command	Description
	set	Sets or displays environment variables.

version

Use the **version** boot loader command to display the bootloader version.

version

Syntax Description	This command has no	arguments or keywords.
--------------------	---------------------	------------------------

Command Modes Bootloader

Command History	Release	Modification
	12.2(44)EX	This command was introduced.

Examples

This example shows how to display the bootloader version:

switch: version
IE3000 Boot Loader (IE3000-HBOOT-M) Version 12.2(44)EX
Compiled Wed 05-Mar-08 10:11 by engineer

version