



CHAPTER 5

Reduced Solaris Packages

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This chapter describes the reduced Solaris packages and the architecture-specific or hardware specific packages for certain Sun Microsystems configurations for the Cisco the Cisco BTS 10200 Softswitch 10200 Softswitch. The Cisco the Cisco BTS 10200 Softswitch 10200 Softswitch uses a base Solaris 8 image derived from the 02/04 release of Solaris 8 from Sun Microsystems. All of the Cisco the Cisco BTS 10200 Softswitch 10200 Softswitch application packages are included in the list for completeness.

Solaris 10 Package List

This section describes the Solaris 10 Core Package and Finish Script.

Core Packages

Table 5-1 lists the packages required to create a working environment for the applications. This list is derived from installing the Sun recommended Reduced Network Core list of packages. Each Finish Script that is VTG product-specific may then add and delete packages as needed by the application.

Table Nomenclature:

- C—denotes part of Reduced Network Core Installation Package
- D—denotes package dependency
- ?—Denotes unknown

Table 5-1 *Solaris 10 Reduced Network Core List of Packages*

Package	Type	Sol8	Use	Description	Notes
SUNW1394	SYSTEM	N	?	Sun IEEE1394 Framework	
SUNWaccr	SYSTEM	Y		System accounting (Root)	
SUNWaccu	SYSTEM	Y		System accounting (Usr)	
SUNWadmap	SYSTEM	Y	C	System administration applications	
SUNWadmc	SYSTEM	Y		System administration core libraries	

Table 5-1 *Solaris 10 Reduced Network Core List of Packages*

Package	Type	Sol8	Use	Description	Notes
SUNWadmfr	SYSTEM	Y		System and Network Administration Framework Configuration	
SUNWadmfw	SYSTEM	Y		System and Network Administration Framework	
SUNWadmlib-sysid system	SYSTEM	Y		System and Network identification libraries	
SUNWadmr	SYSTEM	Y	C	System and Network Administration Root	
SUNWaudd	SYSTEM	Y	C	Audio drivers	
SUNWbash	SYSTEM	Y		GNU Bourne-Again shell (bash)	
SUNWbind	SYSTEM	Y		BIND DNS Name server and tools	
SUNWbindr	SYSTEM	Y		BIND DNS Name server SUNWbvand tools for root	
SUNWbip	SYSTEM	Y	C	Basic IP commands (Usr)	
SUNWbtool	SYSTEM	N		CCS tools bundled with SunOS	
SUNWbzip	SYSTEM	Y	C	The bzip compression utility	
SUNWcar	SYSTEM	Y	C	Core Architecture (Root)	
SUNWcakr	SYSTEM	Y	C	Core Solaris Kernel Architecture (Root)	
SUNWced	SYSTEM	Y	C	Sun GigaSwift Ethernet Adapter driver	
SUNWcfcl	SYSTEM	N	C	Common Fibre Channel HBA API Library (Usr)	
SUNWcfclr	SYSTEM	N	C	Common Fibre Channel HBA API Library (Root)	
SUNWcfpl	SYSTEM	N	C	fp cfgadm plug-in library	
SUNWcfplr	SYSTEM	N	C	fp cfgadm plug-in library (root)	
SUNWckr	SYSTEM	Y	C	Core Solaris Kernel (Root)	
SUNWcnetr	SYSTEM	Y	C	Core Solaris Network Infrastructure (Root)	
SUNWcpc	SYSTEM	Y		CPU Performance Counter driver	
SUNWcpcu	SYSTEM	Y		CPU Performance Counter libraries and utilities	
SUNWcpp	SYSTEM	N	C	Solaris cpp	
SUNWcsd	SYSTEM	Y	C	Core Solaris devices	
SUNWcsl	SYSTEM	Y	C	Core Solaris (Shared Libs)	
SUNWcslr	SYSTEM	Y	C	Core Solaris libraries (Root)	
SUNWcsr	SYSTEM	Y	C	Core Solaris (Root)	

Table 5-1 Solaris 10 Reduced Network Core List of Packages

Package	Type	Sol8	Use	Description	Notes
SUNWcstl	SYSTEM	N	?	Appttrace Utility	
SUNWcsu	SYSTEM	Y	C	Core Solaris (Usr)	
SUNWctpls	CTL	N	D	Portable layout services	(SUNWmfrun, SUNWxi18n)
SUNWdteor	SYSTEM	Y		Solaris Desktop /usr/dt filesystem anchor	
SUNWdtdmr	SYSTEM	N		CDE daemon configuration	
SUNWdtrc	SYSTEM	N		DTrace Clients	
SUNWdtrp	SYSTEM	N		DTrace Providers	
SUNWerid	SYSTEM	Y	C	Sun RIO 10/100 Mb Ethernet drivers	
SUNWesu	SYSTEM	Y	C	Extended System Utilities	
SUNWeuodf	SYSTEM	N	D	UTF-8 Core OPENLOOK Desktop Files (SUNWeu8df)	
SUNWeurf	SYSTEM	N	D	Global fonts	(SUNWi15rf)
SUNWfchba	SYSTEM	Y	C	Sun Fibre Channel Host Bus Adapter Library	
SUNWfchbar	SYSTEM	Y	C	Sun Fibre Channel Host Bus Adapter Library (root)	
SUNWfcip	SYSTEM	Y	C	Sun FCIP IP/ARP over FibreChannel device driver	
SUNWfcmdb	SYSTEM	Y	C	Fibre Channel adb macros and mdb modules	
SUNWfcp	SYSTEM	Y	C	Sun FCP SCSI device driver	
SUNWfcsn	SYSTEM	N	C	FCSM driver	
SUNWfctl	SYSTEM	Y	C	Sun Fibre Channel Transport layer	
SUNWfmd	SYSTEM	N	C	Fault Management Daemon and Utilities	
SUNWfss	SYSTEM	N		Fair Share Scheduler	
SUNWgcmn	SYSTEM	Y		gcmn - Common GNU package	
SUNWged	SYSTEM	Y		Sun Gigabit Ethernet Adapter driver	
SUNWgss	SYSTEM	N	?	GSSAPI V2	
SUNWgssc	SYSTEM	N	?	GSSAPI CONFIG V2	
SUNWgssdh	SYSTEM	N	?	GSS Diffie-Hellman	
SUNWgssk	SYSTEM	N	?	kernel GSSAPI V2	
SUNWgzip	SYSTEM	Y		The GNU Zip (gzip) compression utility	
SUNWhmd	SYSTEM	Y	C	SunSwift Adapter drivers	

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Package	Type	Sol8	Use	Description	Notes
SUNWi15rf	SYSTEM	N	D	X11 ISO8859-15 required fonts (SUNWi15cs)	
SUNWib	SYSTEM	N	C	Sun InfiniBand Framework	
SUNWidnl	SYSTEM	N	C	Internationalized Domain Name Support Library Files	
SUNWipc	SYSTEM	Y		Inter Process communications	
SUNWifp	SYSTEM	Y		Sun Fibre Channel Arbitrated Loop device driver	
SUNWinst	SYSTEM	N	?	Install Software	
SUNWinstall-patch -utils-root	SYSTEM	Y	C	Install and Patch Utilities (root)	
SUNWipfr	SYSTEM	N	C	IP Filter utilities (Root)	
SUNWipfu	SYSTEM	N	C	IP Filter utilities (Usr)	
SUNWipoib	SYSTEM	N	C	Sun IP over InfiniBand	
SUNWiscsir	SYSTEM	Y	C	Sun iSCSI device driver (root)	
SUNWiscsiu	SYSTEM	Y	C	Sun iSCSI Management Utilities (usr)	
SUNWj5rt	SYSTEM	N	D	JDK 5.0 Runtime Env. (1.5.0_01)	(SUNWocf)
SUNWjfca	SYSTEM	N	C	JNI Fibre Channel Adapter (FCA) driver	
SUNWjfcrau	SYSTEM	N	C	JNI Fibre Channel Adapter (FCA) (usr)	
SUNWjss	SYSTEM	N	C	Network Security Services for Java (JSS)	
SUNWkey	SYSTEM	Y	C	Keyboard configuration tables	
SUNWkrbr	SYSTEM	Y	C	Kerberos version 5 support (Root)	
SUNWkrbu	SYSTEM	Y	C	Kerberos version 5 support (Usr)	
SUNWkvm	SYSTEM	Y	C	Core Architecture (Kvm)	
SUNWless	SYSTEM	Y		The GNU pager (less)	
SUNWlexpt	SYSTEM	Y	C	libexpat - XML parser library	
SUNWlibC	SYSTEM	Y		Sun Workshop Compilers Bundled libC	
SUNWlibms	SYSTEM	Y	C	Math and Microtasking libraries (Usr)	
SUNWlibmsr	SYSTEM	Y	C	Math and Microtasking libraries (Root)	
SUNWlibsasl	SYSTEM	N	C	SASL v2	
SUNWlldap	SYSTEM	N	C	LDAP libraries	
SUNWloc	SYSTEM	Y	C	System Localization	

Table 5-1 *Solaris 10 Reduced Network Core List of Packages*

Package	Type	Sol8	Use	Description	Notes
SUNWlur	APPL	N	?	Live Upgrade (root)	
SUNWluu	APPL	N	?	Live Upgrade (usr)	
SUNWluxop	SYSTEM	Y	C	Sun Enterprise Network Array firmware and utilities	
SUNWluxopr	SYSTEM	Y	C	Sun Enterprise Network Array libraries	
SUNWluzone	SYSTEM	N		Live Upgrade (zones support)	
SUNWlxml	SYSTEM	Y	C	The XML library	
SUNWm64cf	APPL	N	?	M64 Graphics Configuration Software	
SUNWmdb	SYSTEM	Y		Modular Debugger	
SUNWmdbdm	SYSTEM	Y		Modular Debugger Demo Source	
SUNWmdbr	SYSTEM	Y		Modular Debugger (Root)	
SUNWmdr	SYSTEM	Y	C	Solaris Volume Manager (Root)	
SUNWmdu	SYSTEM	Y		Solaris Volume Manager (Usr)	
SUNWmfrun	SYSTEM	Y		Motif RunTime kit	
SUNWmibii	SYSTEM	Y		Solstice Enterprise Agents 1.0.3 SNMP daemon	
SUNWmipr	SYSTEM	N	?	Mobile-IP (Root)	
SUNWmipu	SYSTEM	N	?	Mobile-IP (Usr)	
SUNWmkcd	SYSTEM	N	?	CD creation utilities	
SUNWnfscr	SYSTEM	N	?	Network File System (NFS) client kernel support (Root)	
SUNWnfscr	SYSTEM	Y		Network File System (NFS) client support (Root)	
SUNWnfscu	SYSTEM	Y		Network File System (NFS) client support (Usr)	
SUNWnisu	SYSTEM	Y		Network Information System (Usr)	
SUNWnistr	SYSTEM	Y		Network Information System (Root)	
SUNWocf	SYSTEM	N	?	Open Card Framework	
SUNWocfr	SYSTEM	N	?	Configuration files for Open Card Framework	
SUNWopenssl-libraries	SYSTEM	Y	C	OpenSSL libraries (Usr)	
SUNWpd	SYSTEM	Y	C	PCI drivers	
SUNWperl584core	SYSTEM	Y	C	core Perl 5.8.4 (core)	
SUNWperl584usr	SYSTEM	Y	C	Perl 5.8.4 (non-core)	
SUNWpkgcmds	SYSTEM	N	C	SVr4 package commands (root)	

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Package	Type	Sol8	Use	Description	Notes
SUNWpkgcmdu	SYSTEM	N	C	SVr4 packaging commands (usr)	
SUNWpool	SYSTEM	N		Resource Pools	
SUNWpoolr	SYSTEM	N		Resource Pools (Root)	
SUNWpr	SYSTEM	N	C	Netscape Portable Runtime	
SUNWproduct-regi stry-root	SYSTEM	N	C	Solaris Product Registry runtime support (root)	
SUNWqfed	SYSTEM	Y	C	Sun Quad FastEthernet Adapter driver	
SUNWqlc	SYSTEM	N	C	Qlogic ISP 2200/2202 Fibre Channel device driver	
SUNWqos	SYSTEM	N	?	IP QoS (Root)	
SUNWqosu	SYSTEM	N	?	IP QoS (Usr)	
SUNWqus	SYSTEM	N		QLogic Ultra3 Scsi (Root)	
SUNWqusu	SYSTEM	N		QLogic Ultra3 Scsi (Usr)	
SUNWrcmdc	SYSTEM	N		Remote Network Client commands	
SUNWroute	SYSTEM	N	?	Network Routing daemons/commands (Usr)	
SUNWrpcib	SYSTEM	N	C	InfiniBand plugin to RPC over RDMA	
SUNWrsg	SYSTEM	N	?	RPCSEC_GSS	
SUNWrsgk	SYSTEM	N	?	kernel RPCSEC_GSS	
SUNWsacom	SYSTEM	N	?	Solstice Enterprise Agents 1.0.3 files for root file system	
SUNWsadmi	SYSTEM	N	?	Solstice Enterprise Agents 1.0.3 Desktop Management Interface	
SUNWsasnm	SYSTEM	N	?	Solstice Enterprise Agents 1.0.3 Simple Network Management Protocol	
SUNWses	SYSTEM	Y	C	SCSI Enclosure Services device driver	
SUNWsolnm	SYSTEM	Y	C	Solaris Naming Enabler	
SUNWspnego	SYSTEM	N	?	SPNEGO GSS-API mechanism	
SUNWsprot	SYSTEM	Y		Solaris bundled tools	
SUNWssad	SYSTEM	Y	C	SPARCstorage Array drivers	
SUNWsshcu	SYSTEM	Y	C	SSH common (Usr)	
SUNWsshdr	SYSTEM	Y	C	SSH server (Root)	
SUNWsshdu	SYSTEM	Y	C	SSH server (Usr)	
SUNWsshr	SYSTEM	Y	C	SSH Client and utilities (Root)	
SUNWsshu	SYSTEM	Y	C	SSH Client and utilities (Usr)	

Table 5-1 *Solaris 10 Reduced Network Core List of Packages*

Package	Type	Sol8	Use	Description	Notes
SUNWswmt	SYSTEM	Y	C	Install and Patch utilities	
SUNWtavor	SYSTEM	N	C	Sun Tavor HCA driver	
SUNWtesh	SYSTEM	N	?	Tenex C-shell (tesh)	
SUNWtecla	SYSTEM	N	C	Tecla command-line editing library	
SUNWter	SYSTEM	N	?	Terminal Information	
SUNWtls	SYSTEM	N	C	Network Security Services	
SUNWtltk	SYSTEM	N		ToolTalk runtime	
SUNWtnetc	SYSTEM	N		Telnet Command (client)	
SUNWtnetd	SYSTEM	N		Telnet daemon for user (server)	
SUNWtnetr	SYSTEM	N		Telnet daemon for root (server)	
SUNWtnfc	SYSTEM	Y		TNF Core components	
SUNWtnfd	SYSTEM	N		TNF Developer components	
SUNWtoo	SYSTEM	Y		Programming tools	
SUNWucbt	SYSTEM	N	?	Appttrace support objects for ucblib	
SUNWudaplr	SYSTEM	N	C	Sun User Direct Access Programming library (Root)	
SUNWudapltr	SYSTEM	N	C	Sun uDAPL for Tavor (Root)	
SUNWudapltu	SYSTEM	N	C	Sun uDAPL for Tavor (User)	
SUNWudaplu	SYSTEM	N	C	Sun User Direct Access Programming library (User)	
SUNWuedg	SYSTEM	N	C	USB Digi Edgeport serial driver	
SUNWugen	SYSTEM	N	C	USB Generic driver	
SUNWus	SYSTEM	N	?	UltraSPARC CPU device driver	
SUNWusb	SYSTEM	Y	C	USB device drivers	
SUNWusbs	SYSTEM	Y	C	USB generic serial module	
SUNWvld	SYSTEM	N	?	Sun Ethernet Vlan Utility Routines	
SUNWvldu	SYSTEM	N	?	Sun Ethernet Vlan Utility Headers	
SUNWwbsup	SYSTEM	N	C	WAN boot support	
SUNWwsr2	SYSTEM	Y	C	Solaris Product Registry and Web Start runtime support	
SUNWxge	SYSTEM	N	C	Xframe 10GE NIC driver	
SUNWxi18n	SYSTEM	N	D	X Window System Internationalization Common package	(SUNWp1ow)
SUNWxwacx	SYSTEM	N	D	AccessX client program (SUNWeuodf, SUNWeu8df)	
SUNWxwdv	SYSTEM	Y	X	Windows System Window drivers	

Table 5-1 *Solaris 10 Reduced Network Core List of Packages*

Package	Type	Sol8	Use	Description	Notes
SUNWxwfnt	SYSTEM	N	D	X Window System platform required fonts	(SUNWxwplt, SUNWeuodf, SUNWpLOW)
SUNWxwice	SYSTEM	Y		X Window System Inter-Client Exchange (ICE) components	
SUNWxwplr	SYSTEM	Y		X Window System platform software configuration	
SUNWxwplt	SYSTEM	Y		X Window System platform software	
SUNWxwrtl	SYSTEM	Y		X Window System and Graphics Runtime Library Links in /usr/lib	
SUNWzebrar	SYSTEM	N	?	zebra-GNU routing daemons (root)	
SUNWzebrau	SYSTEM	N	?	zebra-GNU routing daemons (usr)	
SUNWzip	SYSTEM	Y		The Info-Zip (zip) compression utility	
SUNWzlib	SYSTEM	Y	C	The Zip compression library	
SUNWzoner	SYSTEM	N		Solaris zones (Root)	
SUNWzoneu	SYSTEM	N		Solaris zones (Usr)	
SUNWzsh	SYSTEM	Y		Z shell (zsh)	

Finish Scripts

The SUNW packages listed in [Table 5-2](#) are installed in the CA and EMS finish scripts for Solaris 10.

Table Nomenclature:

- C—denotes part of Reduced Network Core Installation Package
- D—denotes package dependency
- ?—Denotes unknown

Table 5-2 *Solaris 10 Finish Scripts Packages*

Package	Type	Sol8	Description
SFWsudo	System		Sudo—superuser do
SUNWatfsr	System		AutoFS (Root)
SUNWatfsu	System		AutoFS (Usr)
SUNWbart	System		Basic Audit Reporting tool
SUNWefc	System	Y	Embedded FCode Interpreter drivers
SUNWexplo	Application	Y	Sun(TM) Explorer Data Collector
SUNWexplu	Application	Y	Sun(TM) Explorer Data Collector Configuration files
SUNWglmr	system	Y	Rasctrl Environment Monitoring driver for i2c (Root)

Table 5-2 *Solaris 10 Finish Scripts Packages*

Package	Type	Sol8	Description
SUNWi2cr	System	Y	Device drivers for I2C devices (Root)
SUNWpiclr	System		PICL Framework (Root)
SUNWpiclu	System		PICL Libraries, and Plugin modules (Usr)
SUNWpstl	System	Y	Platform-specific Appttrace support
SUNWpsu	System		Solaris Print—LP Server (Usr)
SUNWrcmdr	System		Remote Network Server commands (Root)
SUNWrcmds	System		Remote Network Server commands (Usr)
SUNWvts	System	Y	SunVTS Framework
SUNWvtsr	System	Y	SunVTS Framework (Root)
SUNWvtsts	System	Y	SunVTS for tests
SUNWxcu4	System		XCU4 utilities

Sun Microsystems Configurations

Table 5-3 lists the Solaris 8 architecture-specific or hardware specific packages for certain Sun Microsystems configurations.

Table 5-3 *Solaris Architectural- or Hardware-Specific Optional Package List*

Package	Description	Type	Status
SMEvplr	SME platform links	SYSTEM	
SMEvplu	SME usr/platform links	SYSTEM	
SUNWaudd	Audio drivers	SYSTEM	
SUNWauddx	Audio drivers (64-bit)	SYSTEM	
SUNWced	Sun GigaSwift Ethernet Adapter (32-bit driver)	SYSTEM	
SUNWcedx	Sun GigaSwift Ethernet Adapter (64-bit driver)	SYSTEM	
SUNWcg6	GX (cg6) device driver	SYSTEM	
SUNWcg6x	GX (cg6) device driver (64-bit)	SYSTEM	
SUNWcsd	Core Solaris devices	SYSTEM	
SUNWdfb	Dumb Frame Buffer device drivers	SYSTEM	
SUNWensqr	Ensoniq ES1370/1371/1373 Audio device driver (32-bit) (Root)	SYSTEM	
SUNWensqx	Ensoniq ES1370/1371/1373 Audio device driver (64-bit) (Root)	SYSTEM	
SUNWeridx	Sun RIO 10/100 Mb Ethernet drivers (64-bit)	SYSTEM	
SUNWfcip	Sun FCIP IP/ARP over FibreChannel device driver	SYSTEM	

Table 5-3 *Solaris Architectural- or Hardware-Specific Optional Package List (continued)*

Package	Description	Type	Status
SUNWfcipx	Sun FCIP IP/ARP over FibreChannel device driver (64-bit)	SYSTEM	
SUNWfcpx	Sun FCP SCSI device driver	SYSTEM	
SUNWfcpx	Sun FCP SCSI device driver (64-bit)	SYSTEM	
SUNWfctl	Sun Fibre Channel Transport layer	SYSTEM	
SUNWfctlx	Sun Fibre Channel Transport layer (64-bit)	SYSTEM	
SUNWfruid	FRU ID prtfru Command and libfru library	SYSTEM	
SUNWfruip	FRU ID Platform Data module and Access libraries	SYSTEM	
SUNWfruix	FRU ID library (64-bit)	SYSTEM	
SUNWged	Sun Gigabit Ethernet Adapter driver	SYSTEM	
SUNWglmr	rasctrl environment monitoring driver for i2c (Root) (32-bit)	SYSTEM	
SUNWglmx	rasctrl environment monitoring driver for i2c (Root) (64-bit)	SYSTEM	
SUNWi2cr	device drivers for I2C devices (Root, 32-bit)	SYSTEM	
SUNWi2cx	device drivers for I2C devices (Root, 64-bit)	SYSTEM	
SUNWidecr	IDE device drivers	SYSTEM	
SUNWidecx	IDE device drivers (Root) (64bit)	SYSTEM	
SUNWider	IDE device driver (Root)	SYSTEM	
SUNWkmp2r	PS/2 Keyboard and Mouse device drivers (Root) (32-bit)	SYSTEM	
SUNWkmp2x	PS/2 Keyboard and Mouse device drivers (Root) (64-bit)	SYSTEM	
SUNWmdr	Solstice DiskSuite drivers	SYSTEM	Required by the Cisco BTS 10200 Softswitch
SUNWmdx	Solstice DiskSuite drivers(64-bit)	SYSTEM	Required by the Cisco BTS 10200 Softswitch
SUNWmdi	Sun Multipath I/O drivers	SYSTEM	
SUNWmdix	Sun Multipath I/O drivers (64-bit)	SYSTEM	
SUNWpd	PCI drivers	SYSTEM	
SUNWpdx	PCI drivers (64-bit)	SYSTEM	
SUNWpiclh	PICL Header files	SYSTEM	
SUNWpiclr	PICL Framework (Root)	SYSTEM	
SUNWpiclu	PICL libraries and Plugin modules (Usr)	SYSTEM	
SUNWpiclx	PICL libraries (64-bit)	SYSTEM	
SUNWqfed	Sun Quad FastEthernet Adapter driver	SYSTEM	

Table 5-3 *Solaris Architectural- or Hardware-Specific Optional Package List (continued)*

Package	Description	Type	Status
SUNWqfedx	Sun Quad FastEthernet Adapter driver (64-bit)	SYSTEM	
SUNWqlc	Qlogic ISP 2200/2202 Fiber Channel device driver	SYSTEM	
SUNWqlcx	Qlogic ISP 2200/2202 Fiber Channel device driver (64-bit)	SYSTEM	
SUNWses	SCSI Enclosure Services device driver	SYSTEM	
SUNWsesx	SCSI Enclosure Services device driver (64-bit)	SYSTEM	
SUNWsior	SuperIO 307 (plug-n-play) device drivers (Root)	SYSTEM	
SUNWsiox	SuperIO 307 (plug-n-play) device drivers (Root) (64-bit)	SYSTEM	
SUNWssad	SPARCstorage Array drivers	SYSTEM	
SUNWssadx	SPARCstorage Array drivers (64-bit)	SYSTEM	
SUNWssaop	Administration Utilities and Firmware for SPARCStorage Array	SYSTEM	
SUNWuaud	USB Audio drivers	SYSTEM	
SUNWuaudx	USB Audio drivers (64-bit)	SYSTEM	
SUNWusb	USB device drivers	SYSTEM	
SUNWusbx	USB device drivers (64-bit)	SYSTEM	
SUNWxwdv	X Windows System Window drivers	SYSTEM	
SUNWxwdvx	X Windows System Window drivers (64-bit)	SYSTEM	

