

CGL 1.1 Projects

Line #	OSDL Req #	Feature Name	Implementations & Source Code Locations	OSS Maintainer / Project Contact	Project Status	Mainline Acceptance Status	
						Stable	Development
				George Anzinger	Requirement fulfilled Version ?? at stable maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Submitted into 2.5.x; not merged yet High res timers being discussed on LKML
2.	1.2.2	POSIX Signal Interface Standard Compliant	No ongoing project site	No ongoing maintainer	Requirement fulfilled No ongoing development	In 2.4.18	In 2.5.x
3.	1.2.3	New implementation of POSIX Message Queue Interface Standard Compliance	No ongoing project site Patch at http://www.mat.uni.torun.pl/~wrona/posix_ipc/	Michal Wronski & Krzysztof Benedyczak / Geoff Gustafson	Requirement fulfilled Three different patches are flying around LKML Version 2.02 of Michal Worski's patch at beta maturity	2.4.18 port available; not submitted/accepted into 2.4.x	??
4.	1.2.4	POSIX Semaphore Interface Standard Compliant	No ongoing project site Library available at http://www.garret.ru/~knizhnik	Konstantin Knizhnik / Geoff Gustafson	Requirement fulfilled Version 1 at beta maturity	User space, standalone library; Expected to be picked up by MontaVista and SuSE (??)	

5.	1.3 4.3 4.6	Event Logging POSIX IEEE 1003.25 Kernel Message Structuring	http://evlog.sf.net/	Larry Kessler	Requirement fulfilled Version 1.4.2 at stable maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Several small pieces (with a focus on interface) have been submitted to 2.5 to prepare the way for acceptance of the EvLog project in 2.7.
6.	1.4.1 1.7.1	IPv6 RFCs USAGI	http://linux-ipv6.org	USAGI project / Venkat Jagana	Requirement fulfilled Version ?? code at stable maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Some patches are trickling in
7.	1.4.2 1.7.2	IPSECv6 RFCs USAGI	http://linux-ipv6.org	Dave Miller / Venkat Jagana	Requirement fulfilled Version ?? code at stable maturity	2.4.18 port available; not submitted/accepted into 2.4.x	In 2.5.x
8.	1.4.3 1.7.3	MIPv6 RFCs	http://www.mipl.mediapoli.com	?? / Venkat Jagana	Requirement fulfilled Version ?? code at stable maturity	??	Feature submitted to 2.5.x; acceptance pending
9.	1.5	SNMP support ucd-snmp	http://net-snmp.sourceforge.net	Wes Hardaker / John Villalovos	Requirement fulfilled Version 5.06 code at stable maturity No ongoing development	User space; included in all distros	

10.	1.6	POSIX Threads Standards Compliance	<ul style="list-style-type: none"> 1) NGPT: http://www-124.ibm.com/developerworks/opensource/pthreads 2) NPTL: http://people.redhat.com/drpper/nptl/ 	<ul style="list-style-type: none"> 1) Bill Abt 2) Ulrich Drepper 	<ul style="list-style-type: none"> 1) Requirement fulfilled Version 2.04 at ?? maturity 2) Requirement fulfilled Version 0.5 at ?? maturity 	<ul style="list-style-type: none"> 1) Accepted into 2.4.19 2) ?? 	<ul style="list-style-type: none"> 1) Accepted into 2.5.36 2) ??
11.	2.1.1	cPCI Hot Insert	<ul style="list-style-type: none"> 1) PICMG 2.12: http://sourceforge.net/projects/picmg212-hs 2) Hotplug: http://sourceforge.net/projects/linux-hotplug 3) ATCA: http://www.sourceforge.net/projects/atca-hotswap 	<ul style="list-style-type: none"> 1) Johnnie Peters 2) Greg KH, David Brownell 	<ul style="list-style-type: none"> 1) Requirement fulfilled Version ?? at beta maturity Project expected to be stable by end of 02 2) Requirement fulfilled Version ?? at stable maturity 3) ?? 	<ul style="list-style-type: none"> 1) 2.4.18 port available; not submitted /accepted into 2.4.x 2) Prelim patch available 3) ?? 	<ul style="list-style-type: none"> 1) 2.5 work underway; not submitted 2) In 2.5.48 3) ??

12.	2.1.2	cPCI Hot Remove	<ul style="list-style-type: none"> 1) PICMG 2.12: http://sourceforge.net/projects/picmg212-hs 2) Hotplug: http://sourceforge.net/projects/linux-hotplug 3) ATCA: http://www.sourceforge.net/projects/atca-hotswap 	<ul style="list-style-type: none"> 1) Johnnie Peters 2) Greg KH, David Brownell 	<ul style="list-style-type: none"> 1) Requirement fulfilled Version ?? at beta maturity Project expected to be stable by end of 02 2) Requirement fulfilled Version ?? at stable maturity 3) ?? 	<ul style="list-style-type: none"> 1) 2.4.18 port available; not submitted /accepted into 2.4.x 2) Prelim patch available. 3) ?? 	<ul style="list-style-type: none"> 1) 2.5 work underway; not submitted 2) In 2.5.48 3) ??
13.	2.1.3	Hot Device Identity	??	Ville Lavonious	Project getting started	Not submitted yet	Not submitted yet
14.	2.2	Remote Boot Support	No ongoing project site	No ongoing maintainer	Requirement fulfilled Code merged into kernel No ongoing development	In 2.4.18	In 2.5.x
15.	2.3	Boot Cycle Detection	No project website; need to be started				
16.	2.4	Loading Proprietary Modules	No ongoing project site	No ongoing maintainer	Requirement fulfilled Code merged into kernel No ongoing development	In 2.4.18	In 2.5.x
17.	2.5	Diskless Systems	No ongoing project site	No ongoing maintainer	Requirement fulfilled Code merged into kernel No ongoing development	In 2.4.18	In 2.5.x

18.	2.6.1	Serial Console Connection	No ongoing project site	No ongoing maintainer	Requirement fulfilled Code merged into kernel No ongoing development	In 2.4.18	In 2.5.x
19.	2.8	Hyperthreading of CPUs	No ongoing project site	Venkatesh Pallipadi	Requirement fulfilled Code merged into kernel No ongoing development	In 2.4.27	In 2.5.x
20.	3.2.1	Watchdog Timer Interface Requirements	??	Corey Minyard	Requirement fulfilled Version ?? at beta maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Submitted for 2.5.??
21.	3.3	Application Heartbeat	Part of http://linux-ha.org	Alan Robertson / Andrea Brugger	Requirement fulfilled Version ?? at stable maturity	User space; included in SuSE distro	
22.	3.4	Ethernet Link Aggregation and Failover	http://www.sourceforge.net/projects/bonding	Mark Huth	Requirement fulfilled Version 20021107 at ?? maturity	In 2.4.4	2.5.47

23.	3.5 6.2	RAID support	http://scsirastools.sourceforge.net	Andrew Cress	<p>Requirement fulfilled. Focus is on RAID-1.</p> <p>Version 1.2.8 is at beta maturity.</p> <p>Version 1.4 will include:</p> <ul style="list-style-type: none"> • fault manager to predict disk failures (using RM or PCP) • sgraidmon handling of SES enabled enclosures 	<p>Total of 10 patches. 5 submitted to LKML:</p> <ul style="list-style-type: none"> • 2 incorporated • 2 rejected • 1 pending <p>3 tied to EvLog, will not be submitted. 2 still need to be submitted.</p>	??
24.	3.6	Resilient Filesystem Support	<ol style="list-style-type: none"> 1) ReiserFS: http://www.namesys.com 2) Ext3: LKML 3) IBM JFS: http://www-124.ibm.com/jfs/ 4) SGI XFS: http://oss.sgi.com/projects/xfs/ 	<ol style="list-style-type: none"> 1) Hans Reiser 2) Ted Tso, Stephen Tweedie, Andreas Dilger, Andrew Morton 3) Dave Kleikamp (IBM JFS team) 4) Steve Best (SGI XFS team) 	All projects at stable maturity	All are included 2.4.20	All are included in 2.5.6

25.	3.7	Disk and Volume Management	http://sistina.com/products_lvm.htm	LVM1: ?? LVM2 & Device Mapper:	Version ?? at ?? maturity	In 2.4.16	In 2.5.x
26.	3.8	Software Live Upgrade	??	Dan Frazier	??	User space; Included in ?? distros	
27.	4.1	Resource Monitor	https://sourceforge.net/projects/resourcemntd	Todd Davis	Requirement fulfilled with current implementation Proposal underway to merge this into Performance Co Pilot project	User space; Included in MV distro	
28.	4.2 5.2	Kernel Dumps: Kernel Dump Targets, Kernel Summary Dump; Kernel Dump Analysis	http://lkcd.sourceforge.net	Matt Robinson	Requirement fulfilled Version ?? at ?? maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Pushback on LKML; next steps TBD

29.	4.11	Panic Handler Enhancements	http://panic.el.sourceforge.net	Andrew Cress	Requirement fulfilled Version 1.2.5 at stable maturity Next release 1.3.0 will include: - compliance to SA Forum HPI - decode panic type and calling module in bmc_panic	Some of the code is replicated by IPMI driver. Out of 4 required features, one "writing message to SEL" may get into 2.6 kernel. Other 3 features will need to be modified to comply with SA Forum HPI Spec (just came out), so they can be generalized for LKML acceptance.	??
30.	4.13	Fast Reboot	http://bootimg.sourceforge.net	Werner Almesberger / Mohammed Abbas	Requirement fulfilled Version 10 at stable maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Submitted to 2.5
31.	4.4	Dynamic Debug/Probe Insertion & LTT	http://oss.software.ibm.com/developerworks/opensource/linux/projects/dprobes/	Vamsi Krishna	Requirement fulfilled Version ?? at stable maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Dprobes submitted to 2.5.30; LTT submitted to 2.5.33
32.	4.5	Platform Signal Handler	No ongoing project site	Venkatesh Pallipadi	N/A	N/A	

33.	5.1	User-Level (gdb) Debug Support for Threads	Gdb-5.2 source base, ngpt-2.0.2 source base, glibc-2.2.4 source base Need better source location data.	David Howell	Requirement fulfilled Version ?? at beta maturity	??	??
34.	5.3	Kernel Debugger	1) KDB: http://oss.sgi.com/projects/kdb/ 2) KGDB: http://kgdb.sourceforge.net	Keith Owens / Andy Pfiffer	1) Requirement fulfilled Version 1.2 at stable maturity 2) Amit S. Kale	1) 2.4.18 port available; not submitted /accepted into 2.4.x 2) 2.4.18 port available; not submitted /accepted into 2.4.x	Linus has said more than once that he will not include a kernel debugger in the standard tree.
35.	5.3.2	Kernel Debugger Authentication	None; small enhancement to be submitted back to kdb	Larry Butler	??	??	??
36.	5.8	Consolidated Multithreaded Core dump	No ongoing project site	Mark Gross	Requirement fulfilled Version ?? at stable maturity	??	Acceptance expected in 2.5.43
37.	6.1	Soft Realtime	http://www.kernel.org/pub/linux/kernel/people/rml/preempt-kernel/	Robert Love, George Anzinger	Requirement fulfilled Version ?? at ?? maturity	2.4.18 port available; not submitted/accepted into 2.4.x	Accepted in 2.5.??
38.	6.3	Application Loading	No ongoing project site	Corey Minyard	Requirement fulfilled Version ?? at stable quality	Non-kernel glibc patch. Submitted to glibc maintainers.	

39.	6.5.1	Enhancements for concurrent timer scaling	??	??	??	??	
40.	6.5.2	Enhancements for concurrent thread scaling	??	??	??	??	
41.	6.5.2 6.5.3	Scalability – Enhanced locking primitives	http://prdownloads.sf.net/lse/rcu_ltimer_01-2.4.18-1.patch	Hanna Linder	Requirement fulfilled Version ?? at ?? maturity	In 2.4.18	In 2.5.??
42.	6.5.2 6.5.3	Scalability - Locking primitives - peel off dcache lock	http://prdownloads.sf.net/lse/fast_walk+dcache_rcuA2-2.4.18.patch	Hanna Linder	Requirement fulfilled Version ?? at ?? maturity	In 2.4.18	In 2.5.??
43.	6.5.2 6.5.3	Scalability - Remove Kernel Locks and	http://prdownloads.sf.net/lse/files_struct_rcu-2.4.18-07.patch and http://prdownloads.sf.net/lse/statctr-2.4.18-5.patch	Hanna Linder	Requirement fulfilled Version ?? at ?? maturity	In 2.4.18	In 2.5.??
44.	6.5.2 6.5.3	Counter scalability	http://prdownloads.sf.net/lse/statctrusage.2.4.18-3.patch	Hanna Linder	Requirement fulfilled Version ?? at ?? maturity	In 2.4.18	In 2.5.??