

Lustre 2.7 Changelog

Version 2.7.0

Server support for kernels:

RHEL 6.6 (2.6.32-504.8.1.el6)

Client support for unpatched kernels:

RHEL 6.6 (2.6.32-504.8.1.el6)

RHEL 7 (3.10.0-123.20.1.el7)

SLES11 SP3 (3.0.101-0.46)

PROPOSED: SLES 12 (3.12)

Recommended e2fsprogs version:

v1.42.12.wc1

Interoperability Support:

- PROPOSED: Upgrade and Interop (clients and servers) with latest 2.4.x, latest 2.5.x, or latest 2.6.x release
- PROPOSED: Upgrade only with 2.6.0

Issues fixed between 2.6.0 and 2.7.0

New Features

LU-1996	Fine-grained job activity tracking using changelogs
LU-2456	Dynamic LNet Config Main Development Work
LU-4665	utils: lfs setripe to specify OSTs
LU-4788	LFSCCK 3: MDT-MDT consistency verification
LU-3291	IU UID/GID Mapping Feature (Preview Only)

Improvements

LU-991	cleanup LMV for DNE
LU-1452	LFSCCK 4: Improve inode iteration for uninitialized groups
LU-1453	LFSCCK 4: Improve OI scrub trigger strategy: do not trigger urgent OI scrub on the whole system if only few inconsistent OI entries are found
LU-3072	add more operations to racer
LU-3373	ldiskfs patches for FC19
LU-3613	Get parent_fid + name for an entry
LU-3963	cleanup libcfs wrappers
LU-4735	Build Xeon Phi client RPMs for SuSE SLES SP2,SP3
LU-4821	osd-zfs: get rid of udmu wrappers
LU-4928	LLAPI file lease helpers
LU-4993	support for 3.14 linux kernel
LU-5061	add lnb_ prefix to members of struct niobuf_local

LU-5276	Idiskfs patches for FC19
LU-5306	Change downloads.{ whamcloud.com , lustre.org } to downloads.hpdd.intel.com , and update other whamcloud URLs
LU-5322	support for 3.16 linux kernel
LU-5363	kernel update [SLES11 SP3 3.0.101-0.35]
LU-5390	Lustre's wireshark plugin needs to have its download URL updated
LU-5409	add OBD_FAULT_CHECK
LU-5435	Simulate message loss and high latency in LNet
LU-5443	Remove references to defined constant HZ
LU-5485	first mount always fail with avoid_asym_router_failure
LU-5531	Add debug message to match extent to RPC
LU-5538	Allow the use of changelog traces
LU-5557	enqueue and reint RPC are not tracked in MDS stats
LU-5596	Remove obsolete global variable in LNET code
LU-5613	unused variable in tgt_brw_read()
LU-5743	Update ZFS/SPL version to 0.6.3-1.1
LU-5772	osd-zfs: comment over __osd_xattr_load() really belongs to __osd_xattr_get()
LU-5795	kernel update [SLES11 SP3 3.0.101-0.40]
LU-5820	LFSCK 4: Record linkEA verification history in RAM
LU-5850	DLC: lnet_startup_indnis should clean up after itself
LU-5866	add --disable-zfs to lbuild script
LU-6003	DLC: startup Router Checker when it is required
LU-6028	Move definition of LDLM_GID_ANY to lustre_dlm.h
LU-6069	kernel update [SLES11 SP3 3.0.101-0.46]
LU-6074	synchronize clio.txt with CLIO changes
LU-6175	Check health status for MDS, MGS and OSD

Bugs

LU-1154	CLIO does not send parent FID with OBD_MD_FLFID to OST on setattr
LU-1279	failure trying to mount two targets at the same time after boot
LU-1399	lustre_cfg_new should return NULL instead of ERR_PTR(-ENOMEM)
LU-1445	fid on OST landing
LU-1669	lli->lli_write_mutex (single shared file performance)
LU-1706	Building debian modules for Lustre 2.1.x fails on Ubuntu 10.04.1 LTS
LU-2182	Add llapi_file_get_layout() function in liblustreapi
LU-2610	sanity test_103: ACL copy failed zfs - umask ignored
LU-2740	lustre utils should support '--version'

LU-2833	Test failure on test suite sanity, subtest test_48a
LU-2872	Test timeout failure on test suite sanity-quota test_1
LU-3181	open by FID for write with O_LOV_DELAY_CREATE fails for files on MDT1
LU-3192	LBUG:(osc_request.c:1308:osc_brw_prep_request()) ASSERTION(i == 0 pg->off > pg_prev->off)
LU-3261	Threads stuck in osc_enter_cache when testing LU-1669
LU-3270	ptlrpcd strlen crash trying to log a message
LU-3331	Crash during mount/umount during stress testing
LU-3353	import_sec_validate_get() import ffff88061d4a7000 (FULL) with no sec
LU-3455	Test failure replay-single, test_20b: after 23936 > before 9600
LU-3456	Remove or refactor "ost_connect failed" message
LU-3573	lustre-rsync-test test_8: @@@@@ FAIL: Failure in replication; differences found.
LU-3660	Can't disable ACL support with ZFS MDT
LU-3676	Error setting llite.max_cached_mb on MGS
LU-3703	Failure on test suite sanity test_234: getfattr should have failed with ENOMEM
LU-3716	mgs-survey ASSERTION(lu_device_is_mdt(o->lo_dev))
LU-3727	LBUG (llite_nfs.c:281:ll_get_parent()) ASSERTION(body->valid & OBD_MD_FLID) failed
LU-4075	osd_xattr_get()) ASSERTION(buf->lb_len == sizeof(dt_obj_version_t)) failed:
LU-4090	OST unavailable due to possible deadlock
LU-4119	recovery time hard doesn't limit recovery duration
LU-4167	Interop 2.4.1<->2.5 failure on test suite conf-sanity test_32d: unknown param max_dirty_mb
LU-4176	Test failure on test suite sanity-hsm, subtest test_31a
LU-4178	Test failure on test suite sanity-hsm, subtest test_200
LU-4181	lnet-selftest test_smoke: 1st error found
LU-4217	Eliminate acl warning for acl mount option in ll_options
LU-4298	'lfs setstripe' with bad values creates an empty file that has no striping information
LU-4334	With ZFS can only declare a single mgsnode for MDT or OST
LU-4367	unlink performance regression on lustre-2.5.52 client

LU-4441	sanity test_60a: Module llog_test is in use
LU-4458	Interop 2.5.0<->2.6 failure on test suite recovery-small test_9
LU-4480	cfs_fail_timeout id 214 sleeping for -1000ms
LU-4503	Panic with lu_ref checks enabled
LU-4539	mdt_intent_opc converts any error from mdt_unpack_req_pack_rep into -EPROTO
LU-4648	inode deletion transaction does not count large EA inode deletion credits
LU-4656	Sanity MOUNTOPT configuration variable cannot be used for "-n" option
LU-4660	fix osd_bufs_get() error handling
LU-4669	compile error on ppc64: __ksymtab_ldiskfs_ext_pblock causes a section type conflict
LU-4691	HSM operations mostly fail in striped directories
LU-4723	Lustre tests depends from utils but this is not checked
LU-4730	clean up "lctl get_param" and "lctl set_param" error reporting
LU-4746	Lustre not using kernel current_umask() function breaks GRSecurity umask handling
LU-4749	ZFS-backed OST mkfs.lustre --servicenode does not correctly add failover_nids
LU-4755	ASSERTION(req->rq_reqbuf_len >= msgsize) failed when using 4MB RPC
LU-4768	ost-survey hangs on client 2.4
LU-4808	sanity tests cleanup to work on Xeon Phi
LU-4810	Mount command unexpectedly sets block device parameter "max_sectors_kb"
LU-4856	osc_lru_reserve() ASSERTION(atomic_read(cli->cl_lru_left) >= 0) failed
LU-4870	LFSCCK3: Race between layout LFSCCK and metadata migration
LU-4871	missing newlines at end of error messages
LU-4942	lock callback timeout is not per-export
LU-4943	Client Fails to mount filesystem
LU-4951	DKMS RPM no longer works due to referencing removed modules in its current configuration
LU-4958	do not crash accessing LOV object with FID {0, 0}
LU-4969	nodemap key hash comparison is broken
LU-4970	Test failure sanity-lfscck test_14: ls should success

LU-5003	sanity-hsm test_302 llog_write()) ASSERTION(loghandle->lgh_obj != ((void *)0)
LU-5006	chown/chgrp doesn't work for files created by lfs setstripe
LU-5013	LL_IOC_{GET,SET}_LEASE ioctls return FMODE_{READ,WRITE}
LU-5023	sanity-lfsck test_12: OST lfsck_stop hung
LU-5031	obdfilter-survey fixes
LU-5037	mpss 3.2.1 fails to build
LU-5038	Mount hangs for hours processing some llog
LU-5040	kernel BUG at fs/jbd2/transaction.c:1033
LU-5042	Recovery Lock Replay
LU-5044	not include the .lustre directory in readdir output
LU-5054	File creation failure in directory with 16 byte pool name
LU-5075	Test failure on test suite sanity-lfsck, subtest test_8 Fail to start LFSCK for namespace!
LU-5079	conf-sanity test_47 timeout
LU-5128	ASSERTION(atomic_read(&obd->obd_req_replay_clients) == 0) failed
LU-5141	Only regular files should be archived
LU-5150	NULL pointer dereference in posix_acl_valid() under mdc_get_lustre_md()
LU-5156	In osp_init_last_seq, the return value of osp_write_local_file is not being checked.
LU-5195	HSM: mdt_hsm_cdt_actions.c:104:cdt_llog_process() failed to process HSM_ACTIONS llog
LU-5200	New static analysis issues in 2.5.60-26-g0d92e17
LU-5208	sanity-lfsck test_18c failure: Expect 3 fixed on mds1, but got: 2
LU-5243	lfs.c:1119: undefined reference to `libcfs_log_goto'
LU-5252	HSM: update fifo event API and code
LU-5263	ll_read_ahead_pages() ASSERTION(page_idx > ria->ria_stoff)
LU-5274	ll_statahead_thread() may leak parent, uses parent after dput
LU-5275	clean up technical debt for proc_dir_entry changes
LU-5287	(ldlm_lib.c:2253:target_queue_recovery_request()) ASSERTION(req->rq_export->exp_lock_replay_needed) failed
LU-5290	Oops in cl_req_completion()

LU-5291	Failure to clear ft_flags leads to mmap_sem deadlocks
LU-5299	osd_start() LBUG when doing parallel mount of the same target
LU-5304	kernel allocated memroy can be memset up to 3 times
LU-5305	use after free in ldlm_resource_get()
LU-5308	ofd_fs_setup() oopses if ofd_seqs_init() fails
LU-5312	sanity test_161a: cannot create regular file '...f.sanity.161a': Input/output error
LU-5323	memory leak in lfs_hsm_request()
LU-5325	obsolete name in lustre spec file
LU-5327	powerpc64 defines __u64 differently for kernel- and user-space
LU-5329	Remove obsolete nidtbl swabbing code
LU-5332	hsm: mdt_lock_handle_fini()) ASSERTION(!lustre_handle_is_used(&lh->mlh_reg_lh)) failed
LU-5334	Lustre-2.5.2 build fail with intel-mic-ofed-compat-rdma-3.5-OFED.3.5.2.MIC.beta1.2.6.32_431.17.1.el6.x86_64.x86_64
LU-5339	replay-dual defines test_24() twice
LU-5342	oops in lustre_swab_lmv_user_md() on PPC
LU-5349	Deadlock in mdc_close()
LU-5352	bad if condition in dt_index_read()
LU-5357	GPF in lod_trans_stop()
LU-5358	Failure on test suite replay-vbr test_7e
LU-5359	sanity-quota test_7a: reintegration failed
LU-5367	(mdt_handler.c:2782:mdt_lock_handle_fini()) ASSERTION(!lustre_handle_is_used(&lh->mlh_pdo_lh)) failed
LU-5370	mdt_open_by_fid_lock() may return -EREMOTE without setting lock handle
LU-5371	Failure on test suite parallel-scale test_simul
LU-5373	Failure on test suite sanity test_33b: FAIL: test_33b failed with 2
LU-5379	Get error when has many rules in nrs tbf policy
LU-5380	Invalid AT statistic after reconnect
LU-5383	New static analysis issues in mount_lustre
LU-5385	HSM: do not call the JSON log functions if no log is open

LU-5387	Interop 2.5.2<->2.6 failure on test suite sanity test_239: FAIL: 156 not synced
LU-5389	llite: optimize ll_fid2path()
LU-5391	osd-zfs: ZAP objects use 4K blocks for both indirect and leaf blocks
LU-5394	routerstat units
LU-5395	lfck_start not progressing
LU-5396	annotations for sparse static analyzer
LU-5397	optimize busy loop waiting in class_cleanup()
LU-5398	Oops in ldlm_handle_enqueue0()
LU-5399	fix lbuild to build ofed 3.12 and daily
LU-5401	(mdt_open.c:873:mdt_finish_open()) ASSERTION(ma->ma_valid & MA_INODE) failed
LU-5403	Kernel update [RHEL6.5 2.6.32-431.23.3.el6]
LU-5405	Performance issue while using robinhood in changelog mode
LU-5406	liblustreapi: remove \n from some llapi_error strings
LU-5410	mdd_declare_object_initialize() ignores errors from mdo_declare_ref_add()
LU-5413	mdd_write_lock leaks
LU-5414	mdt_getattr() may call mdt_fix_reply() without packing reply
LU-5415	High ldlm_poold load on client
LU-5416	(ofd_objects.c:256:ofd_precreate_objects()) ASSERTION(nr > 0) failed
LU-5417	lod_load_stripping_locked() fails to detect errors from lod_get_lmv_ea()
LU-5418	compile fix for code using readline
LU-5422	Null pointer dereferences in lu_cache_shrink()
LU-5424	Test failuresanity test_154b: create lov data thru .lustre should fail
LU-5427	Lustre cannot be compiled with MPSS 3.3
LU-5428	LNet: Service thread pid completed after 0.00s (DDN SR34734)
LU-5431	lmv_intent_lookup() leaks lock if lmv_revalidate_slaves() fails
LU-5432	bogus FIDs cause endless loops in fld_client_rpc()
LU-5434	Invalid system.posix_acl_access breaks permissions enforcement

LU-5436	lqe should be freed with OBD_SLAB_FREE_PTR()
LU-5442	unconditionally include libcfs.h in lustre_idl.h
LU-5446	Test timeout lustre-rsync-test test_4: NULL deref osc_sync_interpret+0x147
LU-5451	(lod_dev.c:67:lod_fid_lookup()) ASSERTION(fid_is_sane(fid)) failed: Invalid FID [0x0:0x0:0x0]
LU-5452	request leak in lmv_revalidate_slaves()
LU-5453	mdt_attr_set() uses EX lock for slave 0, PW for master and other slaves
LU-5455	Get EIO errors when loading lustre modules fails
LU-5456	ll_hsm_import() calls ll_setattr_raw() without holding i_mutex
LU-5458	oops in libcfs_kkuc_group_put
LU-5459	(cl_page.c:694:cl_page_assume()) ASSERTION(0) failed
LU-5461	mdt_readpage returning - ENOMEM causes directory to be unreadable
LU-5463	Short file size because of -EDQUOT
LU-5466	suspicious else statement in lfsck_del_target()
LU-5468	(mdc_locks.c:130:mdc_set_lock_data()) ASSERTION(old_i node->i_state & I_FREEING) failed
LU-5474	Test failure sanity-hsm test_90: requests did not complete
LU-5475	readdir missing a directory
LU-5476	Buffer overflow in ll_fid2path
LU-5482	lustre-tests rpm need to depend on rsync and attr
LU-5484	LMV device not cleaned up after client mount failure
LU-5493	New static analysis issues in 2.6.50-112-g01def2b
LU-5496	fix for LU-5266
LU-5499	testing on single node blocked at sanity test 17m
LU-5507	sanity-quota test_18: Oops: IP: lustre_msg_get_opc+0xe/0x110 [ptlrpc]
LU-5510	2.4.3<->2.5.3 interop: sanity-scrub test_15: FAIL: (7) Expected 'inconsistent' on mds1, but got 'inconsistent,upgrade'
LU-5520	BL AST resend
LU-5521	grant errors during soak testing with message drop
LU-5522	ofd_prolong_extent_locks()) ASSERTION(lock->l_flags & 0x0000000000000020ULL) failed

LU-5528	Race - connect vs resend
LU-5530	MDS thread lockup with patched 2.5 server
LU-5536	LustreError: 11932:0:(tgt_handler.c:478:tgt_filter_recovery_request()) @@@ not permitted during recovery ... o901->soaked-MDT0000-lwp-MDT0001_UUID@192.168.1.109@o2ib:0/0
LU-5537	ptlrpc_send_reply(): ASSERTION(req->rq_no_reply == 0) failed
LU-5540	crash in lnet_parse_networks
LU-5543	tests of sles11sp3 in lustre-review always fail
LU-5545	a lot of warnings like ptlrpc_at_adj_net_latency() Reported service time 7 > total measured time 0
LU-5547	(mdt_internal.h:541:mdt_object_child()) ASSERTION(o) failed
LU-5548	avoid list scan in ptlrpcd_check
LU-5549	cl_default_mds_easize not refreshed
LU-5551	format at ldlm_pool.c:625:ldlm_pool_recalc doesn't end in newline
LU-5552	Incorrect file size with -EDQUOT
LU-5556	lock timeout expiring while bulk read still in progress (req timeout extended via early reply)
LU-5565	(osd_handler.c:1959:osd_attr_set()) ASSERTION(dt_object_exists(dt) && !dt_object_remote(dt)) failed
LU-5568	kernel crash when when network initialization failed
LU-5573	Test timeout conf-sanity test_41c
LU-5577	comparison between signed and unsigned integer expressions
LU-5579	MDS crashed by "mdt_check_resent_lock()) ASSERTION(lock != NULL) failed"
LU-5581	blocking ast error handling lack eviction for a local errors and some remote.
LU-5584	EL7 client: Test failure on test suite runtests, subtest test_1
LU-5586	Duplicate "xattr" from sbi_flags under procs
LU-5587	ensure that client code does not require md_object.h
LU-5588	mdt: NULL pointer 'obd' can be dereferenced
LU-5589	NULL pointer dereferenced without check in lsi_prepare()
LU-5591	Null pointer may be dereferenced in lod_ah_init()
LU-5592	incorrect check for NULL in ofd_version_get_check()
LU-5600	Kernel update [RHEL6.5 2.6.32-431.29.2.el6]

LU-5604	Lots of FAIL_ID checking are lost
LU-5606	Interop 2.5.2<->2.6 conf-sanity test_41c: mount MDS failed, Input/output error
LU-5607	xattr interoperability checks removed.
LU-5610	ncli.sh bash: -c: line 0: syntax error near unexpected token `('
LU-5622	copytool_cleanup function should check/wait for copytool death
LU-5624	sanity-lfsck test_9b: Got speed 63, expected more than 64
LU-5626	Corruption of MDT “..” entry in non-HTree ldiskfs directories
LU-5631	Incorrect swabbing of struct llog_rec_tail
LU-5633	not taking rq_lock when modify rq_resend
LU-5635	(llog.c:310:llog_process_thread()) ASSERTION(index <= last_index + 1) failed:
LU-5639	Message is hashed to invalid match-table of LNet request portal
LU-5641	sanity.sh test_103a "acl test" fails on el7
LU-5642	getxattr failing with EIO
LU-5647	Kernel update [RHEL7 3.10.0-123.8.1.el7]
LU-5648	corrupt files contain extra data
LU-5650	check the MGC's import status in the entry of lprocfs_mgc_rd_ir_state
LU-5651	ASSERTION(req->rq_export->exp_lock_replay_needed) failed
LU-5654	MDT 0 failed to set up some OST OSPs when all OSTs were started in parallel for the first time
LU-5656	umount hang after racer
LU-5659	add timestamps to lshmttool_posix log messages
LU-5666	LLAPI grouplock helpers
LU-5668	Enable read verification in ior
LU-5675	qsd_reint_index(): II_FL_NONUNQ is set on index transfer for fid, it shouldn't be
LU-5678	kernel crash due to NULL pointer dereference in kiblnd_pool_alloc_node()
LU-5684	conf-sanity test_56: 'Stripe count not two: 1'
LU-5687	several functions ignore the result of dt_declare_*
LU-5691	hsm: Cannot find running request for cookie 0x539b6fc2 on fid=[0x200000bd0:0x5d57:0x0]

LU-5696	missing wakeup for ptlrpc_check_set
LU-5700	async IO LBUG obj->cob_transient_pages == 0
LU-5702	ldlm_handle_enqueue0()) ### delayed lvb init failed (rc -2)
LU-5706	conf-sanity test_57a: @@@@ @ FAIL: OST registration from failnode should fail
LU-5707	LFSCK 3: cannot load namespace LFSCK tracing file after downgrade from Lustre-2.7
LU-5711	Interop 2.5<->2.7 recovery-small test_10b: eviction happened
LU-5721	sanity-lfsck test_18f failed for unexpected layout LFSCK status
LU-5722	memory allocation deadlock under lu_cache_shrink()
LU-5726	MDS buffer not freed when deleting files
LU-5727	MDS OOMs with 2.5.3 clients and lru_size != 0
LU-5729	VFS: Busy inodes after unmount of loop0. Self-destruct in 5 seconds. Have a nice day...
LU-5731	sanity-lfsck test_18a:
LU-5732	hsm: sanity check for sane progress extent value
LU-5734	LNet dynamic control: lnet_dyn_add_ni() can't clean up failed NI in some cases
LU-5740	Kernel upgrade [RHEL6.6 2.6.32-504.el6]
LU-5751	misconfiguration crashes cfs_cpt_set_node
LU-5752	Missing manpages in Makefile.am
LU-5756	hsm: missing return code in llapi_hsm_copytool_register
LU-5759	replay-dual test_21b: Restart of mds0 failed
LU-5767	LFSCK 3: replace LFSCK RPC with normal OUT RPC to create orphan parent on remote MDT
LU-5771	Crashed OSSs when unmounting OST without cleaning up orphan inodes properly
LU-5777	reserve enough credits for chown/chgrp operation
LU-5778	MDS not creating files on OSTs properly
LU-5779	sanity-hsm test_70: Copytool failed to send unregister event to FIFO
LU-5791	LFSCK 5: use bottom object for consistency verification
LU-5807	enable QOS_DEBUG
LU-5808	Invalid llog records due to loose check of llog name

LU-5813	DLC: typo in route show help
LU-5816	Silence misleading kernel message "task tgt_recov:XXX blocked for more than 120 seconds"
LU-5817	cl_put_grouplock()) ASSERTION(cg->cg_gid) failed
LU-5824	auster -h gives wrong example
LU-5825	Kernel update [RHEL7 3.10.0-123.9.2.el7]
LU-5828	DLC: Cannot verify if the routing buffer has been set or not
LU-5830	use lustre_rmmod in lnet start/stop script
LU-5831	New static analysis issues in lfscck
LU-5832	New static analysis issues in lustre_rsync
LU-5833	sanity-lfscck test_6b: namespace lfscck completed unexpectedly
LU-5837	ll_getparent improvements
LU-5838	DLC: inconsistent nameing of seqno vs seq_no
LU-5842	sanity-sec tests 13 and 14 use a lot more time than necessary
LU-5843	recovery-small test 61 syntax error
LU-5848	sanity-lfscck test_18e: MDS is not the expected 'completed'
LU-5849	DLC: parse networks function needs to return the number of parsed networks
LU-5851	Handle LU-4606 packaging changes for Lustre Server DKMS RPM
LU-5853	el7 build broken
LU-5854	DLC: lnetctl import failed as Failed to handle token:2 [state=0, rc=-1]
LU-5855	sanity-lfscck does not work under ZFS-based DNE mode
LU-5857	catastrophe cannot be found: "error: get_param: /proc/{fs,sys}/{lnet,lustre}/catastrophe: Found no match"
LU-5858	lu_object_find_slice() returns NULL and ERR_PTRs
LU-5859	Running lfs changelog with no registered user results in LBUG
LU-5861	DLC: lnet startup script doesn't invoke lnetctl properly
LU-5862	Jobstats tracking in changelogs doesn't support jobid_var=disable
LU-5863	Can't mount MGS due to label being less than 8 characters long.
LU-5864	New static analysis issues in lfs

LU-5865	New static analysis issues in lfsck
LU-5867	LFSCK: --create_mdtobj flag does not work for 'lctl lfsck_start'
LU-5870	New static analysis issues in llite
LU-5871	Do not return -EAGAIN in lod_object_init
LU-5873	:osd_do_bio()) ASSERTION(iobuf->dr_rw == 0) failed
LU-5874	DLC: the ongoing traffic was interrupted after adding a new network interface
LU-5875	DLC: failed adding an existing network interface when there is traffic ongoing
LU-5878	lfs migrate sends file to stdout
LU-5885	LFSCK 3: 'lctl lfsck_start -t namespace' Not Progressing Under Remove Workload
LU-5889	sanity test 102k failed on sparc
LU-5892	lfsck_needs_scan_dir() LBUG
LU-5893	Kernel update [RHEL7 3.10.0-123.9.3.el7]
LU-5894	DNE II Testing: 2.4/2.5 clients unable to create remote directories against current master servers
LU-5905	Interop 2.6.0<->master conf-sanity test_56: import is not in FULL state
LU-5909	Kernel update [RHEL6.6 2.6.32-504.1.3.el6]
LU-5912	locking flaw generates logged errors
LU-5914	LFSCK: dt_lookup()) LBUG
LU-5916	OST pool inheritance is no longer persistent (no LOV EA for child directory)
LU-5924	conf-sanity test_32b: list verification failed
LU-5928	sanity test_133f timeout: lprocfs_exp_nodemap_seq_show() oops
LU-5932	test scripts fail to load ptlrpc_gss module
LU-5933	FIEMAP: FIEMAP_EXTENT_LAST is not always set
LU-5935	Correcy Inetctl utilities errors discovered during testing
LU-5950	Clients fail to connect following OSS failover in file system with 8 MDSs
LU-5951	sanity test_39k: mtime is lost on close
LU-5957	Broken layout after swapping layouts with unstriped files
LU-5961	Concurrent mount of ZFS targets fails when modules are not loaded

LU-5963	wrong hashing in LU-4647
LU-5982	sanity-lfsck test_29c: (8) unexpected status, test_30: timeout
LU-5983	builds broken by LU-5275 fix
LU-5986	conf-sanity test_83, test_84: failed to start OST
LU-5990	lnet_prepare() should return errno on failure
LU-5996	fix checkpatch.pl to check coding style in .sh files
LU-5997	NULL pointer dereferencing in class_process_proc_seq_param() on lctl conf_param
LU-6002	DLC: startup acceptor dynamically.
LU-6010	DLC: LNetFini() assert is hit if lustre_rmmod without bringing down NI
LU-6011	Kernel update [RHEL7 3.10.0-123.13.1.el7]
LU-6012	sanity-scrub test_6 test_7 test_8 test_9 test_10a: expected 'inconsistent' but got 'inconsistent,auto'
LU-6018	Can not compile against OFED compat-rdma
LU-6021	5 new static analysis issues in lnetconfig
LU-6023	undefined symbol: is_selinux_enabled from mount_osd_idiskfs.so
LU-6024	ACLs aren't nodemapped properly in mdt_finish_open
LU-6025	lctl nodemap commands stop working in interactive mode
LU-6026	sanity-sec test_17: test trusted_noadmin:0:c0:0:000 expected 0 0, got 1 1
LU-6027	Issues with EAs of orphan files and EAs with empty values
LU-6029	conf-sanity test_84: recovery_duration > recovery_time_hard
LU-6031	Interop 2.5.3<->master recovery-small test_10d: file contents differ
LU-6033	sanity-scrub test_13: (5) ls should fail
LU-6035	Kernel update [RHEL6.6 2.6.32-504.3.3.el6]
LU-6042	racer test_1: osc_object_ast_clear()) LBUG
LU-6043	DLC: lnetctl import does not configure any networks
LU-6045	DLC: Address a minor inconsistency between net and route adding behavior
LU-6046	must update cl_object.h now that cl_lock_state is removed.
LU-6048	Kernel update [RHEL7 3.10.0-123.13.2.el7]

LU-6050	Master testing: Unable to set striping after master downgrade to 2.5
LU-6055	sanity-hsm file_creation_failure sends df output to stdout
LU-6056	sanity-hsm uses bash's local built-in incorrectly
LU-6058	test-framework should log to stderr
LU-6059	missing unlock in error path of ll_lov_setstripe_ea_info()
LU-6060	ARF doesn't detect lack of interface on a router
LU-6063	conf-sanity test_76a fails on RHEL7, SLES12
LU-6066	lfsck_namespace_repair_nlink() ASSERTION((((lfsck_object_type(obj)) & 00170000) == 0100000)) failed
LU-6071	LBUG during mkdir -i 1 from 2.6.0 client to 2.5.3 server
LU-6073	lustre/tests/*.c should use sys/xattr.h rather than attr/xattr.h
LU-6075	Interop 2.6.0<->2.7 sanity-scrub test_7: D process in MDS
LU-6076	sanity test_124a: test requires prior tests to be run first
LU-6079	missing NR_CPUS definition in socklnd
LU-6080	Posix copytool should unregister FIFO on signal
LU-6082	sanity-sec test_16: test failed to respond and timed out
LU-6084	Tests are failed due to 'recovery is aborted by hard timeout'
LU-6085	racer stuck on mutex_lock in ll_setattr_raw()
LU-6087	sanity test_300b: mtime not change after create
LU-6088	racer test_1: dir_create.sh mutex deadlock in sys_open->do_lookup
LU-6091	FIEMAP returns empty result until stat(2)
LU-6095	racer.sh should propagate \$TRUNCATE to remote clients
LU-6099	DLC: YAML output must adhere to parsing rules
LU-6101	sanity test_24A: Can not delete directories
LU-6102	OI scrub is triggered during racer test
LU-6109	LFCK gets "inconsistent" flag and won't stop
LU-6110	autogen.sh fails
LU-6114	fix run_metabench() to be run with additional metabench options

LU-6115	sanity test_133g defect: missing return after "skip"
LU-6120	sanity-lfsck test_18f: OST LFSCCK should not do pass 2 orphan cleanup on error
LU-6125	sanity test_27i defect: missing test_mkdir()
LU-6127	racer test is broken after LU-3072 commit
LU-6128	LNet: Problem handling error when lnet_check_routes() fail.
LU-6138	lfsck_namespace not progressing and lfsck_stop hangs
LU-6146	LFSCCK fall into wait for ever because of race condition when check/set cfs_fail_val
LU-6147	sanity-lfsck test_4: '(7) unexpected status'
LU-6154	striped directory on ZFS
LU-6162	Kernel update [RHEL6.6 2.6.32-504.8.1.el6]
LU-6166	bugs of lustre_rsync
LU-6167	endless loop in lustre_rsync
LU-6171	Kernel update [RHEL7 3.10.0-123.20.1.el7]
LU-6199	ldiskfs kernel warnings at ldiskfs_flush_unwritten_io+0x74
LU-6216	Compilation error libtool on ppc64
LU-6222	LustreError (statahead.c:262:sa_kill()) ASSERTION(!list_empty(&entry->se_list))
LU-6230	open handle leak
LU-6231	LFSCCK 5: prepare OUT RPC after the remote transaction start
LU-6235	sanity-scrub test_13 test failed to respond and timed out
LU-6239	lnetctl man pages missing from rpms
LU-6256	Interop 2.6.0<->2.7 sanity test_184e: trusted.lov: No such attribute
LU-6272	sanity-lfsck test_17: MDS deadlock
LU-6307	Interop 2.6.0<->2.7 recovery-small test_105: MGS refused the connection from different version MDT
LU-6312	soft lockup in sanity-lfsck test_18f
LU-6321	Clean downgrade from 2.7.0 to 2.6.0 failed: fail to init namespace LFSCCK component: rc = -5

Technical Tasks

LU-2675	LU-2753 clang: code cleanups for sparse static analyzer
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LU-3852	LU-3647 sanity-hsm test_251: client26-vm "dd: no space left on device"
LU-3939	LU-3647 Test failure on test suite sanity-hsm, subtest test_40
LU-3962	LU-3953 Fix horrible file names in standard path
LU-4259	LU-3300 No brw_stats on ZFS
LU-4836	LU-4788 LFSCK 3 Test Plan
LU-4974	LU-1892 Doxygen comments - lod module
LU-4975	LU-1892 Doxygen comments - ofd module
LU-4976	LU-1892 Doxygen comments - osp module
LU-5104	LU-3953 Split binaries across packages more smart
LU-5330	LU-5030 remove deprecated full path tunable access in lustre config utils
LU-5360	LU-1669 Test timeout sanity-hsm test_13
LU-5506	LU-4788 LFSCK 3: Skip orphan objects handling for failed servers
LU-5508	LU-4788 LFSCK 3: RPC adjustment for remote transaction
LU-5509	LU-4788 LFSCK 3: get PFID from linkEA for remote directory on ldiskfs
LU-5511	LU-4788 LFSCK 3: repair unmatched distributed parent-child pairs
LU-5512	LU-4788 LFSCK 3: repair dangling name entry
LU-5513	LU-4788 LFSCK 3: repair multiple referenced name entry
LU-5515	LU-4788 LFSCK 3: repair bad file type in name entry
LU-5516	LU-4788 LFSCK 3: repair the lost name entry
LU-5517	LU-4788 LFSCK 3: repair invalid nlink count
LU-5518	LU-4788 LFSCK 3: recover client visible objects from the backend /lost+found directory
LU-5519	LU-4788 LFSCK 3: verify striped directory
LU-5941	LU-5465 make lustre-dkms require 2.2.0.3-28.git.7c3e7c5
LU-1214	PTLRPC related modules cleanup
LU-5502	High level description of three modules and relationships
LU-6068	update Intel copyright messages for 2014
LU-6105	Update ZFS/SPL version to 0.6.3-1.2