iSCSI-SCST Usermode Adaptation -- Header File and Library Inclusions

~6100 LOC
Multi-Threaded Engine (MTE)
sys_service Implementor

*Implements sys_service API
using POSIX/glibc calls.
Ignorant of SCST and Linux internal interfaces*

~900 LOC
**sys_service
Provider Interface**

*sys_service API Definition
Ignorant of SCST and
Linux internal interfaces*

~3400 LOC
**usermode_lib
Simulated Kernel
Services**

*Reimplements some Linux
internal kernel functionality
using POSIX/glibc calls and
the sys_service API*

~400 LOC
**scst_compat
Daemon / Kernel
Interface**

*Has knowledge of process
components and provides
initialization and interfaces
between components*

~80,000 LOC Subset
**SCST
Implementation**

*Implements the storage server
application functionality using
Linux intra-kernel interfaces.
Ignorant of sys_service API*

*SCST
UNUSED*

isert-scst
Infiniband
FC
srpt
sysfs
DLM
events *(except
CONN_CLOSED)*
cdrom
changer
disk
modisk
tape
raid
processor
user
local

mte_mem.h
mte_mem.c
mte_service.c
mte_mem_impl.h
mte_event_task.c
mte_util.c
mte_debug.c
mte_util.h
mte_defines.h
mte_mttypes.h

mtelib.h
*~60 LOC
(init sys_service ops vector)*

usermode_lib.c
~300 LOC

pde_fuse.c
~700 LOC

scst_compat.c
~300 LOC

iscsi.h
scst.h

iscsi/kernel
scst core
scst_proc
vdisk

sys_service.h
~300 LOC
sys_debug.h
~600 LOC

usermode_lib.h
~2400 LOC

scst_compat.h
~100 LOC

*(all SCST
kernel file.c)*

TEST_IO_IN_SIRQ

iscsi/usr

*(#include a few .h from a
real kernel tree ≥ 2.6.24)*

usermode_lib.o
pde_fuse.o

scst_compat.o

iscsi-scst.o ← iscsi-scst/kernel/*.o

scst/src/*.o

scst.o
scst_vdisk.o
iscsi-scstlib.o

iscsi-scst/usr/*.o
main()

libmte

glibc
libdl
libpthread
libaio
libfuse

scst

iSCSI/SBC Service Process

scst_usermode.o

LOC = Lines Of Code (all lines in C source files)

DAB 2016-06-26