July 23, 1997
Ref. No. 511-0797-032

National Aeronautics and
Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Attention: Ms. Joy Henegar
Code 514.1
Building 23, Room W215

Subject: Contract NAS5-31500
Subcontract No.:HQ-001057
Landsat 7 Processing System (LPS)
Release 2.0 Software (B 27 252 17)

Dear Ms. Henegar:

We are providing you with a turnover package for LPS Release 2.0 software(B 27 252 17). In addition to the capabilities provided in Release 1.0, this software release contains the following high level capabilities:

- Data capture of Wide Band data using HDPI board
- Generation of browse files from nominal data
- Restore data from tape (tape not created using RDCS)
- Propagation of calibration parameter files
- Ingestion and propagation of contact schedules
- Moving window display
- Automatic cloud cover assessment
- Completion of User Interface as defined in the Build 3 Design Review
- Generation of reports and tape labels

The attachments contain details of this software package.

If you have any questions concerning this delivery, please contact me at 794-2042 or Nate Daniel at 794-2616.

Sincerely,

Mina V. Samii
Landsat 7 Technical Area Manager

MS/dgk
Attachments (14)

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Summary of Attachments

The following Release 2.0 attachments contain the details of the LPS Release 2.0 Software:

Attachment A - Description of the turnover for this release

Attachment B - Listing of the delivered units

Attachment C - Instructions to install the software

Attachment D - Special Operating Instructions

Attachment E - Resolved Configuration Change Requests (ICCRs)

Attachment F - Unresolved Configuration Change Requests (ICCRs)

Attachment G - System Requirements addressed by this release

Attachment H - Known system limitations

Attachment I - Release History matrix

Attachment J - Summary of operational changes

Attachment K - References for documentation

Attachment L - Description of the static database table contents for this release

Attachment M - Description of the LPS Hardware Inventory Report

Attachment N - Notes

Attachment A - Description of Turnover Contents

The Landsat 7 Processing System (LPS) Release 2.0 software resides in the Polytron Version Control System (PVCS) Configuration Management tool located on String 5 (lpsdev1) and is managed by LPS Configuration Management personnel.

For LPS Release 2.0, LPS Configuration Management used the software units from PVCS to create the LPS executable modules for test. The PVCS version label is used to identify the separate build or release configurations. For example, R2.0 is the version label for this release. The revision label is also listed; it can range from 1.0 to 1.3 depending on the number of times a unit is revised.

Attachment B provides the software version information.

Attachment B - Listing of Delivered Units

Attachment B contains the list of source files used for the LPS Release 2.0 software installation.

Working in the bin directory
/u04/pvcs/LPS/bin/mac_dbpurge,v - R2.0 : 1.0
/u04/pvcs/LPS/bin/mac_form_env_setup.scr,v - R2.0 : 1.2
/u04/pvcs/LPS/bin/mac_run_form.scr,v - R2.0 : 1.1
/u04/pvcs/LPS/bin/mac_ui_FilterMsg.scr,v - R2.0 : 1.1
/u04/pvcs/LPS/bin/mac_ui_FilterMsgAwk.scr,v - R2.0 : 1.1
/u04/pvcs/LPS/bin/mac_ui_OpsMsg.scr,v - R2.0 : 1.1
Working in the COTS directory
/u04/pvcs/LPS/COTS/frame_sync/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_align_frames_n_output.c,v - R2.0 : 1.2
/u04/pvcs/LPS/COTS/frame_sync/src/fs_frame_sync.c,v - R2.0 : 1.2
/u04/pvcs/LPS/COTS/frame_sync/src/fs_get_stats.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_initialize.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_match_fsp.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_match_fsp_slip.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_pn_decode.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_reverse_bits.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/src/fs_terminate.c,v - R2.0 : 1.1
/u04/pvcs/LPS/COTS/frame_sync/include/fs.h,v - R2.0 : 1.1
Working in the IDPS directory
/u04/pvcs/LPS/IDPS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/global/include/idp_HDFBandAccess.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/global/include/idp_RadiometricCorrection.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/global/src/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/global/src/idp_HDFBandAccess.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/global/src/idp_RadiometricCorrection.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_ACCAUpdate.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_BandGain.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_BandUpdate.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_GetBandSelection.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_GetGainBias.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_GetMWDParms.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/include/idp_db_RadCorrectParms.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/db/src/idp_db_ACCAUpdate.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/src/idp_db_BandGain.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/db/src/idp_db_BandUpdate.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/IDPS/db/src/idp_db_GetBandSelection.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/src/idp_db_GetGainBias.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/db/src/idp_db_GetMWDParms.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/db/src/idp_db_RadCorrectParms.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAAbort.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCACalculateFiltMaj.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCACalculateMoment.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCACalculateThresholds.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCACollectCloud.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAComputeCover.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAEvaluateThermThresh1.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAEvaluateThermThresh2.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAGenerateCloudMask.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAGetMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAHighThermFilter.h,v - R2.0 : 1.0

/u04/pvcs/LPS/IDPS/include/idp_ACCAInit.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCALowThermFilter.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAShutdown.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_ACCAZeroOutCloud.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BandAbort.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandClose.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandFileWrite.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandFillFile.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandFindScanNum.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandFindScene.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandInit.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandReadMF.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_BandSendMwdMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BandValidateMJF.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseAbort.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseEnhanceContrast.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseFileInfo.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseGenerateFiles.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseGetMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseInit.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseRadCorrect.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseReduceByWavelet.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseShutdown.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_BrowseWriteImage.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_GetMwdMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_HDF.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_MainAbort.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_MainGlobal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_MainInit.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_MainProcessChildSignal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_MainShutdown.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_bandMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_constants.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_mwdAbort.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdBuildWindow.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdCleanup_cb.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdDispatchMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdDisplayLines.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdInit.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdMsgHandler.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdPixelValue.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdProcessEndOfContactMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdProcessEndOfSubintervalMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdProcessMajorFrameMsg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdReadPipe.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdReduceData.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdShutdown.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdUpdateLabels.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwdXMain.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwd_msg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_mwd_types.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/idp_types.h,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/include/idp_wavelet_alg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/include/wavelet_alg.h,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/idp_Main.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/idp_MainAbort.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/idp_MainGlobal.c,v - R2.0 : 1.1

/u04/pvcs/LPS/IDPS/src/idp_MainInit.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/idp_MainProcessChildSignal.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/idp_MainShutdown.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandAbort.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandClose.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandFileWrite.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandFillFile.c,v - R2.0 : 1.2
/u04/pvcs/LPS/IDPS/src/src1/idp_BandFindScanNum.c,v - R2.0 : 1.2
/u04/pvcs/LPS/IDPS/src/src1/idp_BandFindScene.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandInit.c,v - R2.0 : 1.2
/u04/pvcs/LPS/IDPS/src/src1/idp_BandMain.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandReadMF.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandSendMwdMsg.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src1/idp_BandValidateMJF.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src1/idp_HDF.c,v - R2.0 : 1.2
/u04/pvcs/LPS/IDPS/src/src2/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_Browse.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseAbort.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseEnhanceContrast.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseFileInfo.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseGenerateFiles.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseGetMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseInit.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseRadCorrect.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseReduceByWavelet.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseShutdown.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/idp_BrowseWriteImage.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src2/wavelet_alg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCA.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAAbort.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCACalculateFiltMaj.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCACalculateMoment.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCACalculateThresholds.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCACollectCloud.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAComputeCover.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAEvaluateThermThresh1.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAEvaluateThermThresh2.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAGenerateCloudMask.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAGetMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAHighThermFilter.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAInit.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCALowThermFilter.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAShutdown.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src3/idp_ACCAZeroOutCloud.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/Idp_mwd,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_GetMwdMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdAbort.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdBuildWindow.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdCleanup_cb.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdDispatchMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdDisplayLines.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdInit.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdMain.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdMsgHandler.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdPixelValue.c,v - R2.0 : 1.1

/u04/pvcs/LPS/IDPS/src/src4/idp_mwdProcessEndOfContactMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdProcessEndOfSubintervalMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdProcessMajorFrameMsg.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdReadPipe.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdReduceData.c,v - R2.0 : 1.0
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdShutdown.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdUpdateLabels.c,v - R2.0 : 1.1
/u04/pvcs/LPS/IDPS/src/src4/idp_mwdXMain.c,v - R2.0 : 1.0
Working in the LDTS directory
/u04/pvcs/LPS/LDTS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_ExtrDANStruct.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetDANContactInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetDANDDNStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetDANXferState.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetDDNProcessId.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetDDNRcvTime.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetDDNStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetFileGrpInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetFileGrpXferDelStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetFileSetDelStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetFileSetXferStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetFileSubIntvId.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetLDTParm.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetRetentionStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetSubIntvList.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetSubIntvXferFile.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetSubintv.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_GetSuspDANs.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_InsertDANInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_InsertDDNProcessId.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_InsertFileGroupInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_InsertFileSetInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateAllFileDelStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateDANDDNStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateDANInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateDDNRcvTimeInDANInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateDDNSvrStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileDelStat.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileGrpDAA.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileGrpDelStat.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileGrpXferStat.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileSetDAA.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileSetDelStat.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileSetXferStat.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/db/src/ldt_db_UpdateFileXferStat.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/LDTS/db/include/ldt_db_Prototype.h,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_AcceptClient.c,v - R2.0 : 1.2
/u04/pvcs/LPS/LDTS/global/src/ldt_Broadcast.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_CreateServer.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_GetCurrentEDCTime.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_PackHeader.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_ProcTermSig.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_ReadSocket.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_SelectSocket.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_SetSockOpts.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_SocketResponse.c,v - R2.0 : 1.1

/u04/pvcs/LPS/LDTS/global/src/ldt_TimeDiff.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_UnpackHeader.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_WriteSocket.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_create_client.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_day_to_month.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_establish_client.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_free_dan.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_insert_time_stamp.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_keyscan_ld.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_next_string.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_put_string.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_save_messages.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/global/src/ldt_string_fail.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/include/ldt_Constants.h,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/include/ldt_Extern.h,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/include/ldt_Prototype.h,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/include/ldt_Types.h,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/include/ldt_dan_prod_info.h,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_CreateDAN.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_SendDAN.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_danProcessLongDAA.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_danProcessShortDAA.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_danRcvDAA.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_read_dan_info.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_send_validation_req.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_start_client_n_clock.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/ldt_write_dan_info.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_RcvDDN.c,v - R2.0 : 1.2
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnAuthentReq.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnCheckDupDDN.c,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnGenAuthRes.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnGenDDA.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnProcessDDN.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnVerifyDDNIntegrity.c,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnVerifyLongDDN.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnVerifyOriginator.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src1/ldt_ddnVerifyShortDDN.c,v - R2.0 : 1.2
/u04/pvcs/LPS/LDTS/src/src2/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src2/ldt_StopDDN.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src3/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src3/ldt_DeleteFiles.c,v - R2.0 : 1.1
/u04/pvcs/LPS/LDTS/src/src3/ldt_delRemoveFiles.c,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/src/src4/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/LDTS/src/src4/ldt_RsndSuspDANs.c,v - R2.0 : 1.0
Working in the MACS directory
/u04/pvcs/LPS/MACS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/include/mac_db_Prototype.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_ACGetNextCaptureInfo.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_ACRegisterCapture.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_CheckDiskSpace.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_DelSmallSubIntv.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_DeleteMjf.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_GetAutoCapInfo.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_GetRDCAcctInfo.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_GetRDCFilename.pc,v - R2.0 : 1.1

/u04/pvcs/LPS/MACS/db/src/mac_db_IngestContact.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_Initialize.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_InsertFileNames.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_InsertFileVerNo.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_InsertLdtSetInfo.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_LoadIASParms.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_MetaDataGen.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_MetaDataGenScene.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_MetaDataGenSubIntv.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_MetaDataGetAScene.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/MACS/db/src/mac_db_MetaDataGetBandsInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_MetaDataGetSubIntv.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_PropL0R.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_RegL0RPID.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_RollbackL0R.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_ShutdownLPS.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_UnregACPID.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/db/src/mac_db_UnregL0RPID.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/db/src/mac_db_UpdateL0RFlag.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/global/include/mac_sem.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/global/src/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/global/src/mac_semfuns.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/include/mac_AutoTypedefs.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/include/mac_ExternL0RGlobal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/include/mac_ExternMetaGlobal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/include/mac_L0RConstants.h,v - R2.0 : 1.3
/u04/pvcs/LPS/MACS/include/mac_L0RGlobal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/include/mac_Prototype.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/include/mac_meta_structs.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_DeleteFileL0R.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/mac_MainAbortL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MainActivateChildProcesses.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MainCleanupL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MainInitL0R.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MACS/src/mac_MainRollbackL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MainShutdownL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MainStartL0R.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MACS/src/mac_MainWaitForL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MetaDataGenFileHeadDesc.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/mac_MetaDataWriteAScene.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MACS/src/mac_MetaDataWriteSubIntv.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src1/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src1/mac_LPS.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MACS/src/src2/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src2/mac_MainStopL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src3/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src3/mac_MainShutdownLPS.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src4/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src4/mac_MainDbInitialize.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src5/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src5/mac_IngestContact.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src6/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src6/mac_LoadIASParms.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src7/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src7/mac_InsertFileNames.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src8/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src8/mac_ACAcceptSignal.c,v - R2.0 : 1.0

/u04/pvcs/LPS/MACS/src/src8/mac_ACSleep.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src8/mac_AutoCapture.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src8/mac_AutoCaptureInit.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src9/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src9/mac_AutoArchive.c,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src10/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src10/mac_AutoStartL0R.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MACS/src/src11/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/MACS/src/src11/mac_PropL0R.c,v - R2.0 : 1.0
Working in the MFPS directory
/u04/pvcs/LPS/MFPS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/db/src/mfp_db_ExtractStopTime.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/db/src/mfp_db_GetParms.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/db/src/mfp_db_GetThres.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/db/src/mfp_db_InsertMjf.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/db/src/mfp_db_InsertSubIntv.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/db/src/mfp_db_InsertSubQa.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/db/src/mfp_db_UpdateSubIntv.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/include/mfp_CalL0rExtract.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MFPS/include/mfp_CalWriteFile.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MFPS/include/mfp_Defines.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_Externs.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_Globals.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_HdfExtern.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_HdfGlobals.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_HdfTemplates.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_HdfTypedefs.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_MjfQa.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_MscdL0rExtract.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MFPS/include/mfp_MscdWriteFile.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MFPS/include/mfp_Parms.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_SubQa.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_Templates.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/include/mfp_Thres.h,v - R2.0 : 1.0
/u04/pvcs/LPS/MFPS/include/mfp_Typedefs.h,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/mfp_AlignBands.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_CalDefSwath.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_CalDetachSwath.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_CalInit.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_CalL0rExtract.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_CalWriteFile.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_ChckSplitMnf.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_CondenseDataGrp.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/mfp_Deint.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_ExtractMnf.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_FillBand6.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_FillMostBands.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_FindMjfEol.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_FindMjfSync.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/mfp_L0RFilesGen.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_Main.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainAdd2Set.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainBandGen.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainCheckTcFrames.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainChkMissing.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainChkSeq.c,v - R2.0 : 1.2

/u04/pvcs/LPS/MFPS/src/mfp_MainCleanup.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainColVcduQA.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainCompScanDir.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/mfp_MainDetermineSub.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainDetermineTimeRange.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainEstimateTime.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainExtractTime.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainFillMissMjfs.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainFindMjfStart.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainGenSubIntv.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainGetAvInfo.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainGroupTC.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/mfp_MainIdentifyMjfSet.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainInit.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainInitVcduSets.c,v - R2.0 : 1.1
/u04/pvcs/LPS/MFPS/src/mfp_MainMjfTime.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainPcdExtract.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainPcdStatusProc.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainQACalcSub.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainQASubGen.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainQAThrTest.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainQAZeroData.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainRelShmBlk.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainStatusExtract.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainTCMnfSync.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainTermHandler.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainValVcidChg.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainValidateMjf.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainValidateTime.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MainVerifySpacecraftId.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MscdL0rExtract.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_MscdWriteFile.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_VerifyMjf.c,v - R2.0 : 1.2
/u04/pvcs/LPS/MFPS/src/mfp_compareEol.c,v - R2.0 : 1.2
Working in the PCDS directory
/u04/pvcs/LPS/PCDS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_ExtractStopTime.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetFirstWrsScene.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetNextWrsScene.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetPrevWrsScene.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetTimeOffset.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetValidParms.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetValidSceneParms.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_GetValidThres.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_ReportSceneInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_StoreAcctInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/db/src/pcd_db_StoreBandsPresent.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/db/src/pcd_db_StoreMjfAcct.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/global/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/global/src/minv3c.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/global/src/minvgc.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/global/src/mprodgc.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/global/src/pcd_1750aToDouble.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/global/src/pcd_ConstructTime.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/global/src/pcd_LagrangeInt.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/global/src/pcd_TwosCompConv.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/global/src/qtoac.c,v - R2.0 : 1.0

/u04/pvcs/LPS/PCDS/include/pcd_Defines.h,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/include/pcd_Externs.h,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/include/pcd_Globals.h,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/include/pcd_Prototypes.h,v - R2.0 : 1.3
/u04/pvcs/LPS/PCDS/include/pcd_Typedefs.h,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_DescribeScene.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/src/pcd_EndOfSISceneCleanup.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/src/pcd_ExtraScenesAtEnd.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/src/pcd_ExtraScenesAtStart.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/src/pcd_Main.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainAcceptMinorFrames.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainAdjustTime.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainAttitudeInt.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainBuildCycle.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainBuildHdfRec.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainBuildMajorFrames.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainBuildMinorFrames.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainCheckDataPoints.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainCleanUp.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainComputeGHA.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainComputeHds.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainComputeLat.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainComputeLookPoint.c,v - R2.0 : 1.3
/u04/pvcs/LPS/PCDS/src/pcd_MainComputePosition.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainComputeSceneCorners.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainConstructCycles.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainCreatePcdFile.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainDetSceneDescription.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainDeterminePcdWord.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainDetermineScenes.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainEphemerisInt.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainEstimateCycleTime.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainEstimateMissingCycles.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainEvalMnfQuality.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExitHandler.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractAds.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractAdsTemp.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractCycleInfo.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractGyroData.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractMjfOneWord72.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractMjfThreeWord72.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractMjfTwoWord72.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractMjfZeroWord72.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractSceneParms.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractWord72.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainExtractWords.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainFileSetup.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainFillMajorFrame.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainFillPcdCycle.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainFormatPcdCycle.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainFormatWords.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainGetNutAng.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainInit.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainLocateSyncPatterns.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainPerformMajorityVote.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainProcMajorFrame.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainReportScenes.c,v - R2.0 : 1.1

/u04/pvcs/LPS/PCDS/src/pcd_MainSunAzimuthElev.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainSunPos.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/src/pcd_MainUpdateSubIntv.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainUpdateSubIntvStats.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainVerifyCycle.c,v - R2.0 : 1.1
/u04/pvcs/LPS/PCDS/src/pcd_MainVerifyCycleTime.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_MainWriteCycleToFile.c,v - R2.0 : 1.2
/u04/pvcs/LPS/PCDS/src/pcd_SavedSceneFunctions.c,v - R2.0 : 1.0
/u04/pvcs/LPS/PCDS/src/pcd_XmitScene.c,v - R2.0 : 1.0
Working in RDCS directory
/u04/pvcs/LPS/RDCS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/RDCS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/RDCS/db/src/rdc_db_DeleteRDCFiles.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_FileExistence.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_LoadLabelParms.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_RegisterProcess.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_SetArchiveFlag.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_SetOnLineFlag.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_WriteAcctToDb.pc,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/db/src/rdc_db_WriteOnLineFlag.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/RDCS/db/src/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/include/hpdi.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/include/hpditune.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/include/rdc.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/include/rdc_extern.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/include/rdc_prototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/include/usrdma.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_CheckDiskSpace.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_DeIsolateProcess.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_DeviceFunctions.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_FileSplit.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_GetBinNumber.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_GetEnvironment.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_Init.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_IsolateProcess.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_LoadTape.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_LogFileError.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_LogShutdownMessage.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_ParseCommand.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_ResumeProcess.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_SetBinNumber.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_ShutDown.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_SuspendProcess.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_System.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_SystemMonitor.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_TapeBinCount.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_TermSig.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_TimeDiff.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_TimeString2Struct.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_TimeStringValid.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_TimeStruct2String.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/rdc_UnloadTape.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/global/src/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_Capture.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_CaptureExtern.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_CapturePrototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_DeleteFilesPrototype.h,v - R2.0 : 1.0

/u04/pvcs/LPS/RDCS/include/rdc_GenLabel.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_GenLabelPrototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_RestagePrototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_SavePrototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_Transmit.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_TransmitExtern.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_TransmitPrototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/include/rdc_UpdRDCAcctPrototype.h,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/RDCS/src/src1/rdc_Capture.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/rdc_CaptureCalcAccounting.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/rdc_CaptureCleanup.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/rdc_CaptureData.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/rdc_CaptureInit.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/rdc_CaptureValidateArgs.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/rdc_WritetoAcctFile.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src1/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src2/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src2/rdc_DeleteFiles.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src2/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src3/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src3/rdc_GenLabel.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src3/rdc_PrintLabel.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src3/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src4/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src4/rdc_Restage.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src4/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src5/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src5/rdc_Save.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src5/rdc_SaveSigHandler.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src5/rdc_SaveValidateArgs.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src5/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/rdc_Transmit.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/rdc_TransmitCleanup.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/rdc_TransmitData.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/rdc_TransmitInit.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/rdc_TransmitValidateArgs.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src6/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src7/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src7/rdc_Terminate.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src7/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src8/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src8/rdc_UpdRDCAcct.c,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src8/sgi.cf,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src9/Imakefile,v - R2.0 : 1.0
/u04/pvcs/LPS/RDCS/src/src9/sgi.cf,v - R2.0 : 1.0
Working in the RDPS directory
/u04/pvcs/LPS/RDPS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/db/src/rdp_db_GetCCSDSParms.pc,v - R2.0 : 1.2
/u04/pvcs/LPS/RDPS/db/src/rdp_db_GetThresholds.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/db/src/rdp_db_PutRDPAcctInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_BCHConstants.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_BCHExtTables.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_BCHLogTables.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_BCHTables.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_CCSDSParms.h,v - R2.0 : 1.1

/u04/pvcs/LPS/RDPS/include/rdp_ExtGlobals.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_Globals.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_MainExtFSyncGlobals.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_MainFSyncGlobals.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_Prototypes.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rdp_Thresholds.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/include/rsd.h,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHBuildMsnQuadTable.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHCreateTransTable.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHDecode.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHMakeMsnSyndromeTable.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHMsnCalcSyndromes.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHMsnChienSearch.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHMsnDecTree.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHMsnDivide.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHPtrCalcSyndromes.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHPtrChienSearch.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHPtrDecTree.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHPtrDivide.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_BCHTransposeCadu.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_CRCCheck.c,v - R2.0 : 1.2
/u04/pvcs/LPS/RDPS/src/rdp_CRCCheckSum.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_CRCGenTable.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_Main.c,v - R2.0 : 1.2
/u04/pvcs/LPS/RDPS/src/rdp_MainExtractCADU.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainFSync.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainGenerateOutput.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainInit.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainObtainData.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainSetVCIDAnnotations.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainShutdown.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainSignalShutdown.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainStoreFailedCADUs.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainTranToShared.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_MainValidateCADU.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_RSCheck.c,v - R2.0 : 1.1
/u04/pvcs/LPS/RDPS/src/rdp_RSD.c,v - R2.0 : 1.1
Working in the lpswork directory
/u04/pvcs/LPS/archives/.env,v - R2.0 : 1.1
/u04/pvcs/LPS/archives/.lpsdevrc,v - R2.0 : 1.1
/u04/pvcs/LPS/archives/.lpsrc,v - R2.0 : 1.2
/u04/pvcs/LPS/archives/LPS_makedir,v - R2.0 : 1.3
/u04/pvcs/LPS/archives/install,v - R2.0 : 1.2
/u04/pvcs/LPS/archives/lmake,v - R2.0 : 1.1
Working in the db directory
/u04/pvcs/LPS/db/include/lps_db_defs.h,v - R2.0 : 1.1
/u04/pvcs/LPS/db/include/lps_db_prototypes.h,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_Commit.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_Connect.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_Disconnect.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_ErrorMessage.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_GetLPSConfiguration.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_GetRDCInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_GetSubIntvInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_InsertFileInfo.pc,v - R2.0 : 1.1
/u04/pvcs/LPS/db/src/lps_db_Rollback.pc,v - R2.0 : 1.1

```
Working in the global directory
/u04/pvcs/LPS/global/include/lps_Errno.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_IPC.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_Times.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_annotated_cadu.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_constants.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_exception.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_getopt.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_global_extern.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_global_msg.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_global_share.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_global_state.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_globalsignal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_major_frame.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_pcd_info.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_prototype.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_scene.h,v - R2.0 : 1.0
/u04/pvcs/LPS/global/include/lps_scene_info.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_signal.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/include/lps_types.h,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/Imakefile,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_CalDate.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_CaptureIsRunning.c,v - R2.0 : 1.2
/u04/pvcs/LPS/global/src/lps_ComputeEpoch.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_DayOfYear.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_EpochBreakdown.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_FIFOClose.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_FIFOOpen.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_FIFOReceive.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_FIFOSend.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_FileNameCreate.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_GetPIDFileName.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_Getopt.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_JulDate.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_LogMessage.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_MonthDay.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ParseFileName.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ParseOptions.c,v - R2.0 : 1.2
/u04/pvcs/LPS/global/src/lps_ProcessChildStatus.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ProcessInit.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ProcessStartChild.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_RsrcAlloc.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_RsrcAllocFIFO.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_RsrcAllocShm.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_RsrcDealloc.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmAddListTail.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmClose.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmCreate.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmCreateSemaphore.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmGetRdBlk.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmGetWrBlk.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmOpen.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmOpenSemaphore.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmPutRdBlk.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmPutWrBlk.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmRemListHead.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmRemListTail.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_ShmRemove.c,v - R2.0 : 1.1
```

/u04/pvcs/LPS/global/src/lps_TimeAdd.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeAssignValue2Struct.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeCompare.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeCompareTol.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeDiff.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeDivide.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeDurCheck.c,v - R2.0 : 1.0
/u04/pvcs/LPS/global/src/lps_TimeGetCurrentTime.c,v - R2.0 : 1.2
/u04/pvcs/LPS/global/src/lps_TimeMultiply.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeScanSeconds.c,v - R2.0 : 1.0
/u04/pvcs/LPS/global/src/lps_TimeString2Struct.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeStringCheck.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeStruct2String.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeStructCheck.c,v - R2.0 : 1.1
/u04/pvcs/LPS/global/src/lps_TimeSubtract.c,v - R2.0 : 1.0
/u04/pvcs/LPS/global/src/lps_ValidateRDCOutfileName.c,v - R2.0 : 1.2
Working in the scripts directory
/u04/pvcs/LPS/scripts/install_lps,v - R2.0 : 1.3
Working in the tables directory
/u04/pvcs/LPS/tables/L71998001IASCAL.V01,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_appl_ts.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_appldba_user.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_inteam_user.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_public_syn.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_role.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_sequence.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/create_table.sql,v - R2.0 : 1.1
/u04/pvcs/LPS/tables/db_creation_notes,v - R2.0 : 1.1
/u04/pvcs/LPS/tables/grant_privs_to_roles.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/grant_role.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/load_static_data.sql,v - R2.0 : 1.1
/u04/pvcs/LPS/tables/pcd.ctl,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/pcd_data_file.dat,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/pcd_sqlldr_command,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/post_load_wrs_parms.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/pre_load_wrs_parms.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/radCorrect.parms,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/tmp_grants.sql,v - R2.0 : 1.0
/u04/pvcs/LPS/tables/tmp_pubsyn.sql,v - R2.0 : 1.0
Working in the ui directory
/u04/pvcs/LPS/ui/src/mac_Makeform.scr,v - R2.0 : 1.2

Binary files stored outside of PVCS:
./ui/src/mac_ui_edit_capt_src.fmb
./ui/src/mac_ui_lps_qa_rpt.fmb
./ui/src/mac_ui_lps_qa_rpt.rdf
./ui/src/mac_ui_del_cont_conf.fmb
./ui/src/mac_ui_data_rec_sum_rpt.fmb
./ui/src/mac_ui_data_rec_sum_rpt.rdf
./ui/src/mac_ui_output_file_set_mgmt.fmb
./ui/src/mac_ui_main.fmb
./ui/src/mac_ui_edit_l0r_params.fmb
./ui/src/mac_ui_restage.fmb
./ui/src/mac_ui_edit_l0r_thres.fmb
./ui/src/mac_ui_ingest_cont_sched.fmb
./ui/src/mac_ui_load_ias_params.fmb
./ui/src/mac_ui_stop_ddn_conf.fmb

./ui/src/mac_ui_sd_lps_can_not.fmb
./ui/src/mac_ui_sd_lps_conf.fmb
./ui/src/mac_ui_start_capt.fmb
./ui/src/mac_ui_prop_l0r_params.fmb
./ui/src/mac_ui_delete_rawfile.fmb
./ui/src/mac_ui_opsmsg.fmb
./ui/src/mac_ui_main_menu.mmb
./ui/src/mac_ui_stop_l0r_no_proc.fmb
./ui/src/mac_ui_edit_cont_sched.fmb
./ui/src/mac_ui_stop_capt_conf.fmb
./ui/src/mac_ui_set_dan_trans_state.fmb
./ui/src/mac_ui_auto_capture.fmb
./ui/src/mac_ui_del_outfile_conf2.fmb
./ui/src/mac_ui_send_data.fmb
./ui/src/mac_ui_del_outfile_conf3.fmb
./ui/src/mac_ui_resend_failed_dan.fmb
./ui/src/mac_ui_start_l0r.fmb
./ui/src/mac_ui_edit_oftc.fmb
./ui/src/mac_ui_stop_l0r.fmb
./ui/src/mac_ui_start_ddn_conf.fmb
./ui/src/mac_ui_stop_copy_to_tape.fmb
./ui/src/mac_ui_start_copy_to_tape.fmb
./ui/src/mac_ui_del_outfile_conf1.fmb
./ui/src/mac_ui_gen_tape_label.fmb
./ui/src/mac_ui_data_trans_sum_rpt.fmb
./ui/src/mac_ui_data_trans_sum_rpt.rdf
./ui/src/mac_ui_resend_susp_dan.fmb
./bin/rdc_vmereset
./tables/gf16.gft
./tables/quad_file

Script files stored outside of PVCS:
/u04/cm/scripts/new_get

Attachment C - LPS Release 2.0 Build Instructions

Attachment C contains the instructions to build the LPS Release 2.0 LPS executable modules. Follow instructions in the order in which they appear. The instructions are geared toward configuration management. Read through the build instructions completely before beginning the build process.

The commands appear in BOLD print. Since UNIX is case sensitive, attention must be maintained throughout the build when entering commands and arguments.

NOTE: It is recommended that binary files be stored outside of PVCS in a directory appropriately labeled, i.e. BINARY/*r2*.

Backup the existing LPS software release prior to building subsequent releases, i.e., non-initial releases.

The LPS Build Instruction process is divided into 4 distinct steps. They are :

1. Setting up the environment.
2. Extracting the units from the PVCS library into the work directory.
3. Building the LPS executable modules.
4. Moving the LPS executable modules to the test site.
5. Check the environment variables and paths.

1. Setting up the User Environment Setup

- IRIS 6.2 is the base operating system
- COTS software must be installed prior to building LPS Release 2.0 identified as:

  HDFv4.0r2_IRIX_5.3* (Version HDFv4.0r2)
  hdfeos* (Version HDF-EOS1.5v1.00)

  * Needed for building LPS executable modules only.

  Oracle v7.3.2

  Oracle Development 2000 1.3.1

  Oracle Forms v4.5

  Pro*C

· Naming conventions:

"config" represents the configuration management account on the LPS development computer.

"configpassword" represents the configuration management password.

All commands are to be typed at the UNIX command line prompt.

2. Extracting LPS units from PVCS

Log into the configuration management account on the lpsdev1. If there are any problems logging onto any computer, for help refer to chapter 2 of the LPS Users Guide for Release 2.

telnet lpsdev1
or
rlogin lpsdev1
or
directly connect into machine

login: **<config>**
password:**<configpassword>**

Option: You can choose to record all keystrokes by typing
script <scriptname>
Do not forget to turn off recording when you are done. Do this by typing **exit**

The user's .cshrc file in the home directory must contain the following statements:

setenv HOME /usr/<username>
setenv INIT_HOME $HOME
setenv LPS_HOME $HOME/lpswork
setenv CM_HOME $HOME/LPS
sentenv PATH $PVCSHOME/.:$PATH

To check the variables, type

echo $HOME
(should be /usr/home/account's home directory)
echo $INIT_HOME
(should be $HOME)
echo $LPS_HOME

(should be $HOME/lpswork)

echo $CM_HOME

(should b3 $HOME/LPS)

Check that the .islvrc file permissions in $HOME are 644. If not,

chmod 644 .islvrc

Create the configuration management LPS Release 2.0 directory structure:

cd $CM_HOME (/usr/home/username/LPS)
Type **get/pvcs/archives/LPS_makedir,v**
Edit: **vi LPS_makedir** and verify that the directory structure and the release number have been modified. The release number, "R2.0" should be in the two lines to get the *lmake* and *install* files:

If this script is not correct, make necessary corrections and save the script. Don't forget to check the unit into PVCS with the appropriate version label to record any changes).

Delete or rename the current lpswork directory to another filename.

cd $HOME
mv lpswork old_lpswork

Execute the **LPS_makedir** script:

Type **LPS_makedir**
(This creates the LPS directory structure called "lpswork" and copies the *lmake* and *install* scripts into the appropriate subdirectories)

cd $LPS_HOME

Check LPS structure:

ls -R |more
press **<spacebar>** to continue to the end of the tree.
or **:q** to quit

Copy binary files stored outside of PVCS to the correct directories:

cd $LPS_HOME
cp -pr $HOME/BINARY/r2/ui/src ui/.
cp -p $HOME/BINARY/r2/tables/quad_file tables/.
cp -p $ HOME/BINARY/r2/tables/gf16.gft tables/.

If all is correct, extract the units from PVCS with the *get* script:

cd $HOME/scripts or the location of the get script:

Type **new_get >&** ***<r2getmmdd.log>***
(The output file, r2*getmmdd*, records what is extracted from PVCS.)

Check the file, *r2getmmdd*, for extraction errors.
type: **more *r2getmmdd.log* |*grep "Error:"***
*(*Replace the word "Error:" with other keywords, i.e.warning, cannot, can't find, unable, FRM-. If no match, repeat the command with a new word.)

Make a copy the populated lpswork to a backup to avoid having to recreate the structure if required to rebuild.

cd $HOME
cp -r lpswork r2lpswork.bak

Note: Remove the link from lpswork/COTS to /u04/cm/LPS/hdf before copying lpswork to r2lpswork,bak. Then recreate the link after successful copy.

To view the tree structure of lpswork:

cd lpswork
ls -R |more
Optional: to save the tree to a file: **ls -R >& r2tree**

The /usr/cm/lpswork is the directory in which the build will take place.

3. <u>Building Release 2.0 Executable Modules</u>

Edit the .cshrc file using any editor that is convenient. Remember to save the file after typing the changes.

Look for a line in the .cshrc file that looks similar to "if ($?USER==0 || $?prompt==0) exit". Immediately after this line on a separate line enter **source .lpsdevrc**

Source the .cshrc file to activate any change made to it:
source .cshrc
If you get the message,
"WARNING: $LPS_HOME/COTS/hdf/hdfeos/bin/sgi/hdfeos_env.csh does not exist.", type **ls -la $LPS_HOME/COTS.** A link should exist to hdf in the LPS directory, i.e: hdf -> /u04/cm/LPS/hdf.

To create a link to hdf:
cd $LPS_HOME

type: **ln -s $CM_HOME/hdf COTS/hdf**

Verify environment variables:

echo $LPS_HOME
(should be $HOME/lpswork)
echo $INIT_HOME
(should be $HOME)
To set either variable, i.e. type, **setenv LPS_HOME $HOME/lpswork**
echo $ORACLE_HOME
(This is set in the lpswork/.lpsrc file and should be /usr/app/oracle/product/7.3.2.)

To view environment variables, type: **env**

Create a script file to record the process, then execute the script to build the Landsat 7 Processing System. LPS compilation takes approximately 1 hour and there are no periodic messages returned to the screen.

script outputfile.tscr
cd $LPS_SCRIPTS

install_lps nodebug

When the compilation process is complete, change to the $LPS_BIN directory and list the LPS executable modules:

cd $LPS_BIN
ls -l
type **exit** (to stop recording to the *outputfile.tscr* file)

Validate the executables:

deletefile
idp
idp_acca
idp_band
idp_browse
idp_mwd
mac_AutoArchive
mac_AutoCapture
mac_AutoStartL0R
mac_IngestContact
mac_InsertFileNames
mac_LoadIASParms
mac_db_init
mac_dbpurge
mac_form_env_setup.scr
mac_ui_load_ias_params.fmx
mac_ui_lps_qa_rpt.fmx
mac_ui_lps_qa_rpt.rep
mac_ui_main.fmx
mac_ui_main_menu.mmx
mac_ui_opsmsg.fmx
mac_ui_output_file_set_mgmt.fmx
mac_ui_prop_l0r_params.fmx
mac_ui_resend_failed_dan.fmx
mac_ui_resend_susp_dan.fmx
mac_ui_restage.fmx
mac_ui_sd_lps_can_not.fmx
mac_ui_sd_lps_conf.fmx
mac_ui_send_data.fmx
mac_ui_set_dan_trans_state.fmx

mac_lps
mac_propl0r
mac_run_form.scr
mac_shutdownlps
mac_startl0r
mac_stopl0r
mac_ui_FilterMsg.scr
mac_ui_FilterMsgAwk.scr
mac_ui_OpsMsg.scr
mac_ui_auto_capture.fmx
mac_ui_data_rec_sum_rpt.fmx
mac_ui_data_rec_sum_rpt.rep
mac_ui_data_trans_sum_rpt.fmx
mac_ui_data_trans_sum_rpt.rep
mac_ui_del_cont_conf.fmx
mac_ui_del_outfile_conf1.fmx
mac_ui_del_outfile_conf2.fmx
mac_ui_del_outfile_conf3.fmx
mac_ui_delete_rawfile.fmx
mac_ui_edit_capt_src.fmx
mac_ui_edit_cont_sched.fmx
mac_ui_edit_l0r_params.fmx
mac_ui_edit_l0r_thres.fmx
mac_ui_edit_oftc.fmx
mac_ui_gen_tape_label.fmx
mac_ui_ingest_cont_sched.fmx
mac_ui_start_capt.fmx
mac_ui_start_copy_to_tape.fmx
mac_ui_start_ddn_conf.fmx
mac_ui_start_l0r.fmx
mac_ui_stop_capt_conf.fmx
mac_ui_stop_copy_to_tape.fmx
mac_ui_stop_ddn_conf.fmx
mac_ui_stop_l0r.fmx
mac_ui_stop_l0r_no_proc.fmx
mfp
pcd
rcvddn
rdc_Capture
rdc_DeleteFiles
rdc_GenLabel
rdc_Restage
rdc_Save
rdc_Terminate
rdc_Transmit
rdc_UpdRDCAcct
rdc_vmereset
rdp
resendsuspdan
senddan
stopddn

Verify that the tables directory (LPS_TABLE_PATH) contains the following files:

radCorrect.parms
gf16.gft
quad_file

Note: the tables directory also contains the files to recreate the database.

4. Prepare to Move the Executables to the Target Site

Make a directory into which the directories, executables, and other files are placed for installation at the target site:

```
cd $HOME
mkdir r2_4_at
cd r2_4_at

mkdir DAN
mkdir DDN
mkdir schedules
mkdir troublefile
mkdir tables
mkdir reports
mkdir iasparms
```

Copy the following to the r2_4_st directory:

cp $LPS_HOME/.lpsrc /.
cp $LPS_BIN .
cp $LPS_TABLE_PATH .

Copy the following to the r2_4_at directory

cp $LPS_HOME/IDPS/src/src4/Idp_mwd .
cp -p $ORACLE_HOME/guicommon2/tk21/admin/Tk2Motif.gray .

Note: Testers must copy these two files to their home directory, $HOME

Edit the *Tk2motif.gray* file by uncommenting a line:

/ Private (to find the line Tk2Motif*use Private Colormap:True and uncomment the line)

Save the file as *Tk2Motif.*

5. Install the Executable Modules

Verify that the "at" subdirectory exists, then

cd /usr/LPS

To create an "at" directory:

mkdir at
cd at

Copy the r2_4_at package from the cm home directory to the "at" directory and rename it to the release name (r2).

cp $HOME/r2_4_at .

OR

If you have to FTP the LPS executable modules to the another string:

cd $HOME
tar cvf r2at.tar r2_4_at >& r2at_tar.log

NOTE: This will produce a long list of units in the *r2at.tar* file.
Do not try to look at the tar file as it is not readable on our computers.

compress r2at.tar (become r2at.tar.Z)

NOTE: This will reduce the size of the tar file in order to make the file transfer quicker.

Open another window and log into the target computer, i.e. lps003.

telnet lps00#
or to connect to lps003 some other way

Login Name: **<config>**
Password: **<configpassword>**

Change to the at directory:
cd /usr/LPS/at

ftp to the cm computer (lpsdev1):

ftp lpsdev1
Name <config>
Password: **<configpassword>**
ls -l (You should be in $HOME: /usr/cm)

Locate the file, *r2at.tar.Z*, in the directory:

get r2at.tar.Z
quit
(This exits the ftp facility and returns control to the LPS003 computer.)

uncompress r2at.tar.Z
(This command uncompresses the r2at.tar.Z file and produces the r2.tar file.)

tar xvf r1at.tar >& untar2.log
(This command produces untars the tar file.)

Rename the r2*_4_at* directory name to r2:
mv r2_4_at r2
cd r2

Validate the size of the executables comparing the *untarr2.log* against *r2at_tar.log* created in the CM site (lpsdev1).

6. Verify the acceptance test (at) environment

Edit the .lpsrc file. Find the line starting with "Figure" and change the ORACLE_HOME path:
cd /usr/LPS/at/r2
setenv ORACLE_HOME **/usr/app/oracle/client/developer2000/1.3.1**

Edit the .cshrc. Immediately below the line “if ($?USER==0||$?prompt==)exit”, add a line to source the .lpsrc file:

source .lpsrc

Go to the line: setenv LPS_HOME /usr/LPS/at/r# and edit the r# to r2.

Save the .cshrc file and source it:

source .cshrc

Verify some of the variables and paths defined in the .lpsrc file:

echo $LPS_HOME	(should be /usr/LPS/at/r2
echo $LPS_RAWFILE_PATH	(should be u01/at/r2/rawfile)
echo $LPS_OUTFILE_PATH	(should be u02/at/r2/outfile)
echo $ORACLE_HOME	(/usr/app/oracle/client/developer2000/1.3.1)
echo $LPS_TAPE_DEV	(/dev/rmt/tps131d5)
echo $LPS_TAPE_LIBRARY_DEV	(/dev/scsi/sc131d5l0)

Edit the .lpsrc file which is located in the r2 directory.

You may have to create some directories, if they do not exist, /u01/at/r2/rawfile and /u02/r2/outfile and change ownership to lpsat:at.

cd /u01
mkdir -p at/r2/rawfile

Change the ownership to "lpsat:at":

chmod 775 r2
chown -R lpsat:at at
ls -la (verify ownership)

cd /u02
mkdir -p at/r2/outfile

Change the ownership to "lpsat:at":

chown -R lpsat:at at
ls -la (verify ownership)

When finished checking the variables, change owner and group of the executables in r2:

cd /usr/LPS/at
chmod 775 r2
chown -R lpsat:at r2
ls -la (verify the owner and group)

Coordinate with the acceptance tester to move the Tk2Motif and Idp_mwd files to the lpsat $HOME.

Have the system administrator change ownership of 3 RDCS executables as follows:

chown root:sys rdc_Capture rdc_Transmit rdc_DeleteFiles
chmod u+s sys rdc_Capture rdc_Transmit rdc_DeleteFiles

Installation is complete to begin testing.

Attachment D - Special Operating Instructions

Attachment D contains the Special Operating Instructions for LPS Release 2.0.

The following subsystems require no special operating instructions:

GLOBALS
DB
PCDS
RDPS
MFPS

RDCS

1. The Auto Capture process does not stop data captures at the scheduled time. In order to stop data captures initiated via contact schedules, type the following to an IRIX shell:

```
cd $LPS_BIN
rdc_Terminate rdc_Capture
```

2. Data captures that are initiated manually do not terminate at the requested time; the specified end time is used to calculate a capture duration from the time that data receipt begins. If a manual data capture does not terminate at the requested time, examine the LPS journal file to determine the duration that is being used.

3. The write to tape function doesn't work. from the User Interface. Use the rdc_Save executable from the command line as described in Release 2 User Guide to save tha data to tape.

4. The rdc_transmit process does not reliably send the data that was requested. The unconfigured hpdixmit tool should be used to perform data capture testing in place of the Send Data option under the Test pulldown on the LPS Main Menu.

5. Restaging of tapes must be done from DLT slot #6. Before restaging data, ensure that the desired tape is in DLT slot #6.

IDPS

The IDPS Radiometric Correction parameters are contained in the file "$LPS_TABLE_PATH/radCorrect.parms in the LPS file system. These data will

eventually be placed in the LPS database, but for Release 2, they are contained in the flat file.

Below are the default descriptions of the Radiometric Correction Parameters. If changes to these parameters are desired use a text editor to make the changes.

Parameter Value	Radiometric Correction Parameter Name	Radiometric Correction Parameter Description
15.21 15.21	maxLow[0], maxHigh[0]	Max. limit of radiance for band 1
-0.15 -0.15	minLow[0], minHigh[0]	Min. limit of radiance for band 1
0.066	bandWidth[0]	Band width for band 1
29.68 29.68	maxLow[1], maxHigh[1]	Max. limit of radiance for band 2
-0.28 -0.28	minLow[1], minHigh[1]	Min. limit of radiance for band 2
0.082	bandWidth[1]	Band width for band 2
20.43 20.43	maxLow[2], maxHigh[2]	Max. limit of radiance for band 3
-0.12 -0.12	minLow[2], minHigh[2]	Min. limit of radiance for band 3
0.067	bandWidth[2]	Band width for band 3
20.62 20.62	maxLow[3], maxHigh[3]	Max. limit of radiance for band 4
-0.15 -0.15	minLow[3], minHigh[3]	Min. limit of radiance for band 4
0.128	bandWidth[3]	Band width for band 4
2.719 2.719	maxLow[4], maxHigh[4]	Max. limit of radiance for band 5
-0.037 -0.037	minLow[4], minHigh[4]	Min. limit of radiance for band 5
0.217	bandWidth[4]	Band width for band 5
1.56 1.56	maxLow[5], maxHigh[5]	Max. limit of radiance for band 6
0.1238 0.1238	minLow[5], minHigh[5]	Min. limit of radiance for band 6
1.0	bandWidth[5]	Band width for band 6
0.08	band3Thresh	Cloud threshold value for band 3
225.0	band56Thresh_1	First cloud threshold value for bands 5 and 6
210.0	band56Thresh_2	Second cloud threshold value for bands 5 and 6
300.00	band6Reflectance	Band 6 reflectance value
1.075	band45Limit	Bands 4 and 5 ratio limit
2.0	band42Limit	Bands 4 and 2 ratio limit
2.0	band43Limit	Bands 4 and 3 ratio limit
0.7	upperLimit	NDSI upper limit
-0.25	lowerLimit	NDSI lower limit
0.4	conservCloudPercThresh	Conservative cloud percent threshold
0.5	desertPercThresh	Desert percent threshold
1.0	snowPercThresh	Snow percent threshold
40.0	highThermEffectThresh	High thermal effect threshold
30.0	lowThermEffectThresh	Low thermal effect threshold
2.0	tempSepFromCloudMax	Cloud temperature range above threshold

MACS/User Interface

1. To start the LPS user interface:

   Step 1 - Type the following commands to an IRIX shell:

   ```
   cd $LPS_BIN
   ```

lps

Step 2 - Move the mouse pointer to the Logon window and click on the Connect button..

2. A button labeled either “Start DDN Server” or “Stop DDN Server” appears under the LPS main UI menu item FileMgmt. The state of this toggle button does not always agree with the status of the DDN server. Use the following command to determine the status of the DDN server:

ps -u <account name>

where <account name> is the UNIX account used to start the rcvddn process

If the status of the toggle button is inconsistent with the status of the DDN server, use the following procedure to synchronize them:

1) Press the toggle button
2) Press the Cancel button on the confirmation dialog box.

Once synchronized, the button can be used as described in the Release 2 User’s Guide.

3. The DDN server is not shut down when ShutDown is selected from the LPS GUI Main Menu. In order to shut down the entire system, synchronize and shut down the DDN server as described above, then select ShutDown from the LPS GUI Main Menu as described in the LPS Release 2 User’s Guide.

4. When Auto Capture is stopped via the Stop Auto Capture button on the GUI, its process id is not cleared from the database. Consequently, the user will be unable to restart the Auto Capture process. To remove the process id from the database type the following to SQL*Plus:

```
SQL> delete PROCESS_ID where TASK_NAME = ‘MAC_AUTOCAPTURE’;
SQL> commit;
```

5. The toggle button used to start and stop Auto Capture may appear to be out of synchronization with the status of the Auto Capture process. In order to either start or stop Auto Capture, select the Auto Capture toggle button even if it appears to be out of synchronization. The correct confirmation dialog box will be displayed and the correct action will take place.

6. The RDC Terminate function doesn’t work from the GUI. Use this function from the command line as described in the Release 2 User’s Guide.

7. Contact schedules received from the MOC will be in GMT. In order to initiate captures at the correct time, the system clock must be set to GMT.

8. When attempting to modify the ECS Password via the View/Edit Output File Transfer Config screen, the user will be prompted for the existing password. If the existing password is not known, it can be determined by typing the following to SQL*Plus:

```
SQL> select ECS_PASSWORD from LPS_CONFIGURATION;
```

LDTS

1. To delete a set of output files, a file group, or individual output files see the deleting L0r Output Files Manually section of the LPS User's Guide. Note that the current directory structure should be used and not the idealized structure in the User's Guide. (See LPS Limitations).

Step 1 - Find LPS database contact identifier and the file version number for the processing instance of interest. See User's Guide, E.1.1, "Finding a Contact Identifier," and E.1.2, "Finding a File Version Number," to learn how to do so.

Step 2 - Find LPS database subinterval identifiers for all the subintervals in the file set of interest. See User's Guide, E.1.3, "Finding a Subinterval Identifier," to learn how to retrieve the subinterval identifier from the database.

Step 3 - Delete all files in the set by typing the following to an IRIX shell for each subinterval identifier found in step 2.

```
% rm -r $LPS_OUTFILE_PATH/Subinterval Identifier/file version number
```

Step 4 Mark each file group in the set as deleted by typing the following to SQL* Plus.

```
SQL>  UPDATE ldt_file_group_info
  2   SET file_group_deletion_status = 2
  3   WHERE sub_intv_sequence_id IN
  4   (SELECT sub_intv_sequence_id FROM sub_intv
  5   WHERE contact_sequence_id = Contact Identifier
  6   AND file_version_number = File Version Number);
```

Step 5 - Verify that the update occurred correctly by noting that the following message appears.

n row(s) updated.
(where n is the number of subintervals)

Step 6 - Mark each file in the set by typing the following to SQL*Plus.

```
SQL>  UPDATE lps_file_info
  2   SET file_deletion_status = 1
  3   WHERE sub_intv_sequence_id IN
  4   (SELECT sub_intv_sequence_id FROM sub_intv
  5   WHERE contact_sequence_id = Contact Identifier
  6   AND file_version_number = File Version Number);
```

Step 7 - Verify that the update occurred correctly by noting that the following message appears.

n rows updated.
(where n is the number of subintervals)

Step 8 - Mark the file set as deleted by typing the following to SQL*Plus where the Number of Subintervals is the total number of file groups or subintervals in a file set:

```
SQL>  UPDATE ldt_file_set_info
  2   SET file_set_deletion_status = 2,
  3         num_file_groups_deleted = Number of Subintervals
  4   WHERE contact_sequence_id = Contact Identifier
  5   AND file_version_number = File Version Number;
```

Step 9 - Verify that the update occurred correctly by noting that the following message appears.

1 row updated

Step 10 - Commit the updates by typing the following to SQL*PLUS.

```
SQL> COMMIT;
```

2. To delete a file group.

Warning: Deleting the last file group of a file set without updating the file set information in the database can leave the LPS database in an inconsistent state. If you are deleting the last file group of a file set, you should follow the procedure for deleting a file set rather than the procedure defined here.

Step 1 - Find LPS database contact identifier and the file version number for the processing instance of interest. See User's Guide, E.1.1, "Finding a Contact Identifier," and E.1.2, "Finding a File Version Number," to learn how to do so.

Step 2 - Find the LPS database subinterval identifier for the file group of interest. See User's Guide, E.1.3, "Finding a Subinterval Identifier," to learn how to retrieve the subinterval identifier from the database.

Step 3 - Delete all files in the set by typing the following to an IRIX shell.

```
% rm -r $LPS_OUTFILE_PATH/Subinterval Identifier/File Version Number
```

Step 4 - Mark the file group as deleted by typing the following to SQL*Plus.

```
SQL>  UPDATE ldt_file_group_info
    2     SET file_group_deletion_status = 2
    3     WHERE sub_intv_sequence_id = Subinterval Identifier;
```

Step 5 - Verify that the update occurred correctly by noting that the following message appears.

```
1 row updated.
```

Step 6 - Mark each file in the set as deleted by typing the following to SQL*Plus.

```
SQL>  UPDATE lps_file_info
    2     SET file_deletion_status = 1
    3     WHERE sub_intv_sequence_id = Subinterval Identifier;
```

Step 7 - Verify that the update occurred correctly by noting that the following message appears.

n row(s) updated.
(where n is the number of deleted files)

Step 8 - Commit the updates by typing the following to SQL*Plus.

```
SQL>  COMMIT;
```

Step 9 - Verify that the commit completed successfully by noting that the following message appears.

Commit complete.

3. To delete a LPS output file.

Warning: Deleting the last file of a file group without updating the file group information in the database can leave the LPS database in an inconsistent state. If you are deleting the last file of a file group, you should follow the procedure for deleting a file group rather than the procedure defined here.

Step 1 - Find the LPS database contact identifier and the file version number for the processing instance of interest. See User's Guide, E.1.1, "Finding a Contact Identifier," and E.1.2, "Finding a File Version Number," to learn how to do so.

Step 2 - Find the LPS database subinterval identifier for the file group of interest. See User's Guide, E.1.3, "Finding a Subinterval Identifier," to learn how to retrieve the subinterval identifier from the database.

Step 3 - Delete the file by typing the following to an IRIX shell.

```
% rm $LPS_OUTFILE_PATH/Subinterval Identifier/File Version
Number /File Name
```

Step 4 - Mark the file as deleted in the LPS database by typing the following to SQL*Plus.

```
SQL>  UPDATE lps_file_info
  2    SET file_deletion_status = 1
  3   WHERE sub_intv_sequence_id = Subinterval Identifier
  4   AND file_name = 'File Name';
```

Step 5 - Verify that the update occurred correctly by noting that the following message appears.

```
1 row updated.
```

Step 6 - Mark the file set as partially deleted by typing the following to SQL*Plus:

```
SQL>  UPDATE ldt_file_set_info
  2   SET file_set_deletion_status = 1
```

```
WHERE contact_sequence_id = Contact Identifier
AND file_version_number = File Version Number;
```

Step 7 - Verify that the update occurred correctly by noting that the following message appears.

```
1 row updated.
```

Step 8 - Mark the file group as partially deleted by typing the following to SQL*Plus.

```
SQL>  UPDATE ldt_file_group_info
    2     SET file_group_deletion_status = 1
    3     WHERE sub_intv_sequence_id = Subinterval Identifier;
```

Step 9 - Verify that the update occurred correctly by noting that the following message appears.

```
1 row updated.
```

Step 10 - Commit the update by typing the following to SQL*Plus.

```
SQL>  COMMIT;
```

Step 11 - Verify that the commit completed successfully by noting that the following message appears.

```
Commit complete.
```

Attachment E - Resolved Configuration Change Requests

Attachment E contains a listing of the CCRs which have been resolved in LPS Release 2.0.

CCR Nos.	Priority	Short Title
LPS97158	5	Need more precision for attitude tolerance

ICCR Nos.	Priority	Short Title
LPSI960028	3C	Fields in database tables were not updated correctly after file deletion
LPSI960029	3C	The shutdown process was not started and no error message was generated
LPSI960031	3C	RDCS aborted with a capture device write error
LPSI960039	3A	Major frame time repeated in MSCD file
LPSI960040	3C	Provide capability to manually stop data processing with no errors
LPSI960041	3C	Mac_stoplOr did not shutdown mfp cleanly
LPSI960044	4	Incorrect message severity from (lps_process child status.C:154)
LPSI960045	3C	MSCD file should be deleted when level Or process is manually stopped
LPSI960046	3A	Level OR processing failed with data containing a bit slip
LPSI960052	3A	Unable to write to MSCD file
LPSI960054	3A	Failed to process format 1 data containing some errors looks like format 2
LPSI960057	3C	Major frames duplicated in MSCD file
LPSI960060	4	Two copies of rdc_PID Temp File are created
LPSI960062	3A	MSCD file should be upgraded to currently specified format
LPSI960063	4	MFPS and MACS didn't recognize empty file
LPSI960066	5	No definition for operational availability
LPSI960069	3C	Incorrect values for major frame period and tolerance
LPSI960072	3C	Reed Solomon errors reported incorrectly
LPSI960075	3A	Time code format changed
LPSI960088	4	Delete list function prototypes from global include files
LPSI960091	3C	"DDA" in the message should be "DAA"
LPSI970092	3C	An incomplete message shown in Journal from ldt_broadcast.c
LPSI970093	3C	lps_ProcessInit fails to complete designated tasks when error is encountered
LPSI970099	3A	The format for subinterval _start/stop time are incorrect

LPSI970102	3C	L7 output file name is not conform to output files DFCB (6/14/96)
LPSI970103	3A	Scan direction is missing in MSCD file
LPSI970104	3A	Scan time in MSCD file is always 0.000000
ICCR Nos.	**Priority**	**Short Title**
LPSI970106	3A	Scan direction in the band file is not correct
LPSI970107	3A	Scan time does not match one in MSCD file
LPSI970108	3A	Time in second format in calibration file (scan time) displays 0.000000
LPSI970109	3C	Scan number in Band file and MSCD file does not match
LPSI970110	3A	Cal_data_line_no exceeds the limits specified in DFCB
LPSI970112	3C	Ca_data_line_offset_rhs and cal_data_line_lhs are out of range
LPSI970117	3A	The mjf_cnt in mfp_acct table is less than major frame no. in MSCD file
LPSI970120	3A	Scan_data_line_no should be cal_data_line_no in calibration file
LPSI970122	3A	Data_line_offset_rhs/lhs values are out of range in band file
LPSI970123	3A	Data_line_offset_rhs/lhs values are out of range in the calibration file
LPSI970127	3A	RDCS temporary files are not deleted and files from interrupted L0R are not deleted
LPSI970128	3A	No entries ever inserted into mfp_mjf_acct table
LPSI970146	3C	Core file is not generated when LPS processes encountered SIGSEGV signal
LPSI970156	3A	No entries ever put into idp-acct table
LPSI970160	3A	No Angular Displacement Sensor data in PCD file
LPSI970164	3A	Can’t handle bit slip properly
LPSI970170	4	Process rcvddn takes excessive cpu
LPSI970174	2	Authentication message is incomplete
LPSI970178	4	Message “Data delivery failed due to DDN_DISP_1”
LPSI070180	3A	“rcvddn” aborted when a DDN with error was received
LPSI970181	3A	EDU_TYPE values in DAN labels should be ASCII not binary
LPSI970182	3A	DATA_TYPE values in DAN do not agree with ICD
LPSI970183	3A	Extra DAN PVL parameters not specified in ICD
LPSI970184	3A	FILE_TYPE parameter values do not agree with ICD
LPSI970185	3C	Authentication response received from ECS should be in DAN directory
LPSI970186	3A	DDA message does not contain DAN sequence number
LPSI970187	3A	The time stamp field of DDA contains garbage
LPSI970188	3C	Control messages between LPS and ECS are not saved
LPSI970189	3C	Only last control messages are saved
LPSI970197	2	LPS Release 1 software cannot process captured file

Attachment F - Unresolved Internal Configuration Change Requests

Attachment F contains a listing of the unresolved Internal CCRs (ICCRs) for LPS Release 2.0.

CCR	Originator	Priority	Short Description
LPSI950001	Jeff Hosler / GSFC / 514	5	Data Dictionary definitions for MF_Start_Tir
LPSI950004	Jeff Hosler / GSFC / 514	5	MFPS should access Valid_CCSDS_Parms fo
LPSI950016	Rosanne Tingley / NYMA	5	MFPS Band 6 size requirement change
LPSI960032	Stephanie Lee / CSC	3C	The directory /u01/st/b1/outfile/314 does not e
LPSI960033	Stephanie Lee / CSC	3C	Determine if /u01/st/b1/outfile/0/1 is only out
LPSI960035	Stephanie Lee / CSC	3C	Trouble file is appended if the same file were r
LPSI960038	Stephanie Lee / CSC	3C	No info was entered in LPS_FILE_INFO table
LPSI960073	Ernie Staples / CSC	3A	First major frame thrown out
LPSI960074	Ernie Staples / CSC	3A	FHSERR and SHSERR are calculated incorrec
LPSI960080	Stephanie Lee / CSC	3C	Cannot view LPS_Journal under MONITOR
LPSI960082	Stephanie Lee / CSC	3B	ldt_StartDDN not found
LPSI960083	Yong Kim / CSC	3C	Miss spelled in Start Level 0R Processing scre
LPSI960084	Dennis Crehan / LMSMS	3A	Store partial cycles at start of subinterval
LPSI960085	Gideon Davis / CSC	3C	The LPS Problems with the Start Level 0R Ch
LPSI960086	Yong Kim / CSC	4	LPS shut down message not clear
LPSI960087	Gideon Davis / CSC	3C	The user interface windows have strange name
LPSI960089	Stephanie Lee / CSC	3B	Error on attempt to send DAN
LPSI960090	Stephanie Lee / CSC	3C	"Extra 'to' in error message ""Error on attempt
LPSI970094	Stephanie Lee / CSC	3C	MFPS trouble file is incorrect.
LPSI970095	Yong Kim / CSC	3A	Error in ETM+_LAST_ON/OFF_TIME form
LPSI970096	Stephanie Lee / CSC	3A	Metadata file format should conform to DFCE
LPSI970097	Stephanie Lee / CSC	3C	Static values loaded in lps_configuration table
LPSI970101	Stephanie Lee / CSC	3A	Metadata file does not have ON/OFF flag set
LPSI970129	Yong Kim / CSC	3A	Failed to create output files
LPSI970131	Stephanie Lee / CSC	3A	Failed to process data containing partial scan a

CCR	Originator	Priority	Short Description
LPSI970133	Alex Critchfield / CSC	3A	fill data had backward time jumps in it
LPSI970134	Stephanie Lee / CSC	3A	The band files in the new subintervals have inc
LPSI970135	Alex Critchfield / CSC	3A	some forward time jumps are skipped
LPSI970136	Alex Critchfield / CSC	3A	entire input file not processed
LPSI970137	Alex Critchfield / CSC	3A	no metadata file generated
LPSI970138	Alex Critchfield / CSC	3C	database not updated
LPSI970139	Alex Critchfield / CSC	3A	no pcd file generated
LPSI970140	Alex Critchfield / CSC	3A	no metadata file generated
LPSI970141	Stephanie Lee / CSC	3A	Software should not delete major frames with
LPSI970142	Alex Critchfield / CSC	3A	new subintervals have 0 fill in scan time codes
LPSI970143	Alex Critchfield / CSC	3A	test case did not execute properly
LPSI970145	Stephanie Lee / CSC	3A	No meta data generated for test case 4.22
LPSI970147	Gideon Davis / CSC	3C	user interface fails to activate with the mac_lp
LPSI970148	Gideon Davis / CSC	3C	interface not displaying messages
LPSI970150	Yong Kim / CSC	3A	Incomplete MSCD file generated
LPSI970151	Stephanie Lee / CSC	3A	"No PCD
LPSI970153	Stephanie Lee / CSC	3A	The values for latitude are incorrect in the ban
LPSI970154	Gideon Davis / CSC	3A	Failed to process data containing data gaps
LPSI970155	Alex Critchfield / CSC	3A	several errors in the band files
LPSI970157	Yong Kim / CSC	3A	Incorrect WRS scene number in meta data file
LPSI970158	Yong Kim / CSC	3A	Lage dataset with data gaps failed with same e
LPSI970159	Stephanie Lee / CSC	3A	Failed to process data containing 3 or 5 bit err
LPSI970168	Stephanie Lee / CSC	3C	Stop DDN server option under FileMgmt mer
LPSI970169	Stephanie Lee / CSC	3C	User Interface has to be brought up from bin c
LPSI970171	Stephanie Lee / CSC	3C	MJF_CTR_ERR_CNT column should be MN table

CCR	Originator	Priority	Short Description
LPSI970172	Stephanie Lee / CSC	3C	Cannot do anything else during L0R processin
LPSI970173	Stephanie Lee / CSC	3A	Errors occured during L0R processing of data
LPSI970175	Ernie Staples / CSC	3C	Shutdown LPS option is misleading
LPSI970176	Ernie Staples / CSC	3C	PROCESSING_VERSION_INFO table not u
LPSI970177	Ernie Staples / CSC	3C	Entry in PROCESSING_VERSION_INFO tal
LPSI970179	Ernie Staples / CSC	3C	No message when Level 0R processing is not
LPSI970190	Gideon Davis / CSC	3A	no output files for test case 4.24
LPSI970191	Gideon Davis / CSC	3A	no output for test case 4.21.
LPSI970192	Stephanie Lee / CSC	3A	Not all output files were generated for test cas
LPSI970193	Alex Critchfield / CSC	4	macs_startl0r crashes and produces a core whe
LPSI970194	Stephanie Lee / CSC	3A	Rephrasing ICCR LPSI970098-PCD stop time
LPSI970195	Stephanie Lee / CSC	3A	Values of PVL parameters are missing plus sig
LPSI970196	Stephanie Lee / CSC	3A	ETM+TIMECODE_ERRORS should be ETM
LPSI970201	Robert Wittig / CSC	3C	DDN_Receive_Time_Stamp is incorrect in LI
LPSI970202	Robert Wittig / CSC	3A	A valid file version not accepted during Level
LPSI970203	Robert Wittig / CSC	3C	A File_Set_DAA_Status is incorrect in release
LPSI970204	Robert Wittig / CSC	3C	File_Group_Xfer_Status is incorrect in release
LPSI970205	Evelyn Lee / GSFC / 514	3C	RDCS generates outfile with file name extensi
LPSI970208	Evelyn Lee / GSFC / 514	3C	The julian date of captured file name is off by
LPSI970209	Steve Marthaler / EDC	4	Modify IDPS to keep subsampled image on M
LPSI970210	Jeff Hosler / GSFC / 514	3C	lps_ProcessStartChild does not Utilize UNIX
LPSI970211	Yong Kim / CSC	4	Maximum minor frame counter should be chan
LPSI970212	Yong Kim / CSC	3C	Can't bring up GUI after updating env parm
LPSI970215	Yong Kim / CSC	4	"On NCD terminal
LPSI970219	Stephanie Lee / CSC	3C	Two entries exist in VALID_RDP_THRES ta

CCR	Originator	Priority	Short Description
LPSI970220	Yong Kim / CSC	3C	Contact period is not displayed in LPS QA re
LPSI970221	Yong Kim / CSC	3C	Menu on report window does not display
LPSI970222	Stephanie Lee / CSC	3C	L7 output file naming convention are not conf
LPSI970224	Steve Marthaler / EDC	3C	Window title incorrect when displaying Opera
LPSI970225	Steve Marthaler / EDC	3C	Anomalous conditions against the LPS Q&A
LPSI970227	Stephanie Lee / CSC	3A	MISSION PVL statement in DAN is extra
LPSI970228	Myron Huang / CSC	3C	Fields in database tables were not updated cor
LPSI970230	Myron Huang / CSC	3C	Can't restart DDN server after it was brought
LPSI970232	Lakshmi Gupta / Loral	5	Update Unit Prologs to facilitate ABS docume
LPSI970233	Neil Ottenstein / CSC	3B	LPS Quality and Accounting info report missi
LPSI970234	Yong Kim / CSC	3A	Unacceptable character in metadata file
LPSI970235	Robert Wittig / CSC	5	EOL Location incorrect in MSD file for fully f
LPSI970236	Robert Wittig / CSC	3A	Scan_Time values in MSD file have only 6 de
LPSI970237	Robert Wittig / CSC	3A	LPS filled major frames where based on the ra
LPSI970238	Robert Wittig / CSC	3A	LPS fills major frames into the margin in the b
LPSI970239	Robert Wittig / CSC	3C	VALID_SENSOR_ALIGN_PARMS table ha SENSOR_ALIGN_TITLE entry
LPSI970240	Alex Critchfield / CSC	4	start l0r window is closed when a duplicate fil
LPSI970241	Alex Critchfield / CSC	3B	the start l0r window does not use the specifiec
LPSI970242	Alex Critchfield / CSC	3C	output file set management window does not c
LPSI970243	Yong Kim / CSC	3C	Load IAS Parameter file failed
LPSI970244	Alex Critchfield / CSC	3C	LPS does not properly restart l0r processing a
LPSI970245	Yong Kim / CSC	5	PCD Q&A data out of range
LPSI970246	Yong Kim / CSC	5	Missing parameters in metadata file
LPSI970247	Robert Wittig / CSC	3C	Inncorrect priority when files are missing
LPSI970248	Robert Wittig / CSC	3A	Metadata file failed to report BCH_UNCORR

CCR	Originator	Priority	Short Description
LPSI970249	Robert Wittig / CSC	3A	Metatdata reporting default values for fields ir
LPSI970250	Ernie Staples / CSC	3C	Suspended DANs aren't saved and can't be res
LPSI970251	Robert Wittig / CSC	3C	LPS automatically deletes files after successfu
LPSI970252	Yong Kim / CSC	3C	Retained on-line file counts are not on transfe
LPSI970253	Yong Kim / CSC	3C	Buttons on report are black
LPSI970254	Yong Kim / CSC	3C	Transfer file count in transfer summary report
LPSI970255	Yong Kim / CSC	3C	File_xfer_time_stamp not updated in database
LPSI970256	Yong Kim / CSC	3A	Failed l0R processing for error in VCDU head
LPSI970257	Nia Giles / CSC	3A	No scene determination with exactly 6 PCD m
LPSI970258	Nia Giles / CSC	4	The GUI screen did not show the correct range
LPSI970259	Nia Giles / CSC	3A	Incorrect Data receipt summary report
LPSI970260	Robert Wittig / CSC	3C	Path and filename line doesn't fit on tape label
LPSI970261	Robert Wittig / CSC	3A	Level 0R process failed when verifying LPS96
LPSI970262	Yong Kim / CSC	3A	Failed to process data with only cloud
LPSI970263	Yong Kim / CSC	3A	Band B82 and band B83 have header informat
LPSI970264	Robert Wittig / CSC	3C	Can't start rdc from command line
LPSI970265	Nia Giles / CSC	3A	ACCA couldn't be performed
LPSI970266	Yong Kim / CSC	3C	'Copy to Tape' function failed with error
LPSI970268	Yong Kim / CSC	3C	RDC terminate only works partially
LPSI970269	Nia Giles / CSC	3A	Incorrect data in the MSCD file
LPSI970270	Nia Giles / CSC	3C	Incorrect report in the database.
LPSI970271	Ernie Staples / CSC	3C	Manual captures always default to 14 minutes
LPSI970272	Ernie Staples / CSC	3C	data garbled from rdc_Transmit
LPSI970273	Yong Kim / CSC	3A	LPS calcurates incorrect cloud cover assesmen
LPSI970275	Yong Kim / CSC	3A	SCENE_CCA in matadata file is incorrectly ca

CCR	Originator	Priority	Short Description
LPSI970276	Robert Wittig / CSC	3C	LPS function Generate Tape LAbel doesn't re
LPSI970277	Robert Wittig / CSC	3C	LPS has problem printing consecutive tape lab
LPSI970278	Robert Wittig / CSC	3A	Integer pixel alignment for band files is incorre
LPSI970279	Yong Kim / CSC	3A	L0r failed to process captured file with data g
LPSI970280	Robert Wittig / CSC	3A	MSD file is not reporting filled minor frames
LPSI970281	Alex Critchfield / CSC	3A	only 2 browse files were generated when a 3 s
LPSI970282	Robert Wittig / CSC	5	Metadata file missing imagery timecode errors
LPSI970283	Robert Wittig / CSC	3A	Cloud Cover calculated incorrectly
LPSI970284	Robert Wittig / CSC	3A	Scene not detected
LPSI970285	Evelyn Lee / GSFC / 514	4	Transfer rate of rdc_Transmit is less than 72
LPSI970286	Yong Kim / CSC	3C	GMT time in contact schedule file from MOC
LPSI970287	Nia Giles / CSC	4	L0R parameter screen accepts an invalid value
LPSI970288	Nia Giles / CSC	3A	Failure to perform ACCA on scene quadrant b
LPSI970289	Alex Critchfield / CSC	3A	l0r processing halts when a new subinterval is
LPSI970290	Robert Wittig / CSC	3C	Stop Auto Capture doesn't work
LPSI970291	Robert Wittig / CSC	3C	RDCS reporting data being received when no
LPSI970292	Ernie Staples / CSC	3C	Record lengths incorrect in RDPS trouble file
LPSI970293	Robert Wittig / CSC	3C	Auto Capture doesn't stop at scheduled stop t
LPSI970294	Robert Wittig / CSC	3C	Transfer Summary Report based on receipt tir
LPSI970295	Robert Wittig / CSC	3C	Start/Stop DDN Server option in the user inte
LPSI970296	Yong Kim / CSC	3C	Capture start/stop and contact time should be
LPSI970297	Alex Critchfield / CSC	3C	typo in field name of MFP_Acct table
LPSI970298	Yong Kim / CSC	3C	12 hour is added to catpture start/stop time
LPSI970299	Yong Kim / CSC	3C	Capture start time is wrong when capture roll
LPSI970300	Yong Kim / CSC	3B	"When file which name starts with '99'

CCR	Originator	Priority	Short Description
LPSI970301	Yong Kim / CSC	3C	Report time does not match with system time
LPSI970302	Robert Wittig / CSC	3A	A second subinterval was started when it shou
LPSI970303	Robert Wittig / CSC	3A	Cannot take inverse of attitude matrix!
LPSI970304	Robert Wittig / CSC	3A	Level 0R failed with signal number =11
LPSI970305	Robert Wittig / CSC	3C	Message saying -4 Missing PCD Data Words
LPSI970306	Dennis Crehan / LMSMS	3A	Stop time incorrect for last scene in subinterva
LPSI970307	Ernie Staples / CSC	3C	MFPS trouble file flag not used
LPSI970308	Ernie Staples / CSC	3A	Incorrect scan direction used for band and calil
LPSI970309	Ernie Staples / CSC	3A	Metadata contact start/stop times should be a
LPSI970310	Ernie Staples / CSC	3C	Prevent multiple copies of executables from ru
LPSI970311	Ernie Staples / CSC	3C	New start L0R entries should be on top
LPSI970312	Ernie Staples / CSC	4	Capture times should be specified as duration
LPSI970313	Ernie Staples / CSC	3A	minf_faults field in MSCD data should be rang
LPSI970314	Ernie Staples / CSC	4	Capture file name truncated on report
LPSI970315	Ernie Staples / CSC	3C	Invalid General Quality values in MFPS troub
LPSI970316	Ernie Staples / CSC	3C	Authentication messages sent when DAN tran
LPSI970317	Ernie Staples / CSC	3C	rcvddn health message should appear in journa
LPSI970318	Yong Kim / CSC	3A	"In metadata file
LPSI970319	Alex Critchfield / CSC	3A	no output files generated
LPSI970320	Robert Wittig / CSC	3A	Day/Night Flag incorrect
LPSI970321	Robert Wittig / CSC	3C	Moving Window display colors differ from br
LPSI970322	Robert Wittig / CSC	3A	Major frame filled when missing only a few C
LPSI970323	Ernie Staples / CSC	3C	Signal mac_AutoCapture when contact schedu

Attachment G - System Requirements

Attachment G contains the system requirements verified for the LPS Release 2.0.

F&PS Req.	Requirement Summary	Comments
3.1. 4	process wideband data inputs from LGS on a Landsat 7 contact period basis	
3.1. 5	process wideband data to generate LPS output files on a received sub-interval basis	for single subintervals
3.1. 6	generate Landsat 7 return link quality and accounting data on a Landsat 7 contact period basis	
3.1. 7	generate Level 0R quality and accounting data on a sub-interval basis	for single subintervals
3.1. 8	reprocess wideband data	
3.1.10	provide an interactive intervention capability to detect and correct abnormal system conditions	
3.1.10.1	provide a system start-up capability	
3.1.10.2	provide a system shut-down capability	
3.1.10.3	generate and report LPS error messages	
3.1.10.4	isolate system faults.	
3.1.10.5	recover from system faults	
3.1.12	monitor LPS operations	
3.1.14	configure system resources to support LPS operations	requires an operational procedure
3.1.19	provide monitoring test points and indicators	
3.1.20	support software maintenance during LPS normal operations	requires an operational procedure
3.1.21	permit corrective maintenance	requires an operational procedure
3.1.22	support preventive maintenance during LPS normal operations	requires an operational procedure
3.1.23	support operator training during LPS normal operations	requires an operational procedure
3.2.1	interface with the LGS	
3.2.2	interface with the LP DAAC	
3.2.4	interface with the IAS	using CPF generated by LPS development
3.3.1. 1	receive return link wideband data from LGS on a Landsat 7 contact period basis	

F&PS Req.	Requirement Summary	Comments
3.3.1. 2	receive return link wideband data inputs from LGS on an LGS output channel basis	
3.3.1. 3	store return link wideband data on a Landsat 7 contact period basis	
3.3.1. 4	store return link wideband data on an LGS output channel basis	
3.3.1. 5	retrieve stored return link wideband data on a Landsat 7 contact period basis	
3.3.1. 6	retrieve stored return link wideband data on an LGS output channel basis	
3.3.1. 8	save removable storage media recorded with return link wideband data	requires an operational procedure
3.3.1. 9	retrieve return link wideband data from removable storage media	
3.3.1.10.1	forward the wideband data receive summary to the MOC	via voice, not FAX
3.3.1.11	coordinate the receipt of return link wideband data with LGS	requires an operational procedure
3.3.1.12	maintain return link wideband data receipt capability during contact period anomalies	
3.3.1.13	coordinate resolution of all data transfer problems with LGS	requires an operational procedure
3.3.2. 1	perform CCSDS AOS Grade-3 service on all received wideband CADUs	
3.3.2. 2	perform CADU synchronization on all received wideband data	
3.3.2. 3	detect and synchronize on both normal and inverted polarity wideband data	
3.3.2. 4	utilize a Check/Lock/Flywheel strategy for synchronization	
3.3.2. 5	invert all bits of each CADU detected to have inverted polarity	
3.3.2. 6	recover from bit slips	
3.3.2. 7	perform pseudo-random (PN) decoding of all received VCDUs	
3.3.2. 8	store all CADUs which have failed CCSDS	
3.3.2. 9	perform BCH error detection and correction on mission data zone in the VCDU	

F&PS Req.	Requirement Summary	Comments
3.3.2. 9.1	perform BCH error detection and correction on the data pointer zone in the VCDU	
3.3.2.10	store all CADUs which have failed BCH on the mission data zone	
3.3.2.13	collect and store Landsat 7 return link (input) quality and accounting data	
3.3.2.14	locate ETM+ minor frames in each received VCDU	
3.3.2.15	perform ETM+ major frame synchronization using ETM+ minor frames	
3.3.2.16	band deinterleave Format 1 ETM+ data	
3.3.2.17	band deinterleave Format 2 ETM+ data	
3.3.2.19	fill full and partial major frames with preselected values	partial pass; full frames only
3.3.2.21	extract calibration data on an ETM+ major frame basis	
3.3.2.22	perform integer-pixel alignment for each ETM+ band using sensor alignment information	
3.3.2.24	process wideband data to Level 0R	
3.3.2.25	generate ETM+ Image data, PCD, MSCD, and Calibration data on a received sub-interval basis	for single subintervals
3.3.2.26	generate Level 0R quality and accounting data	partial pass; item r conflicts with the DFCB
3.3.2.27	provide data quality info per major frame	
3.3.2.28	append the status data contained in the VCDU mission data zone	
3.3.3.3	generate multiband browse data from three predetermined bands of ETM+ Format 1 scene data	
3.3.3.4	generate browse data for each scene	
3.3.3.5	generate browse data using a predetermined reduction factor	
3.3.4. 1	synchronize on PCD bytes for assembling PCD minor frames	
3.3.4. 3	assemble PCD major frames	
3.3.4. 4	generate PCD file(s) on a sub-interval basis	for single subintervals
3.3.4. 5	collect and store PCD quality and accounting, Processed PCD quality and accounting data ,Last instrument on/off times, on a subinterval basis	for single subintervals

F&PS Req.	Requirement Summary	Comments
3.3.4. 7	perform ETM+ scene identification in accordance with the WRS scheme	if data includes sufficient PCD information
3.3.4.11	generate Level 0R metadata (ancillary data) file(s) on a sub-interval basis	for single subintervals
3.3.4.12	generate and include in each Level 0R metadata file the listed Level 0R information, on a subinterval basis	for single subintervals
3.3.4.13	generate and include in each Level 0R metadata file listed image quality data, on a scene basis	partial pass; items b, d, and h conflict with the DFCB
3.3.4.14	generate and include in each Level 0R metadata file listed PCD quality and accounting data, on a scene basis	
3.3.4.15	generate and include in each Level 0R metadata file listed processed PCD quality and accounting data, on a scene basis	
3.3.5.1	notify LP DAAC on the availability of LPS files	
3.3.5.2	coordinate the reporting of file transfer problems with the LP DAAC	
3.3.5.3	receive notification from LP DAAC on the successful receipt of transferred LPS files	
3.3.5.4	store LPS data files until confirmation of successful transfer is received from the LP DAAC	
3.3.5.7	generate LPS file(s) transfer summary	partial pass; items f, g, h, j, o, and p are not in the report
3.3.6. 1	generate and modify LPS set-up tables from operator inputs	
3.3.6. 3	collect and report Level 0R quality and accounting data on a sub-interval basis	
3.3.6. 4	display quality and accounting data upon operator request	
3.3.6. 5	display LPS file(s) transfer summary upon operator request	
3.3.6. 6	allow the operator to select thresholds for results and errors reported by the LPS	

F&PS Req.	Requirement Summary	Comments
3.3.6. 7	automatically generate messages and alarms to alert the operator of LPS results and errors exceeding selected thresholds	
3.3.6. 9	selectively enable and/or disable Receive Wideband Data, Generate Level 0R Files, Transfer LPS Files functions	partial pass; generation of Level 0R files must be done manually and suspended DANs aren't saved for later transfer
3.3.6.10	provide a moving window display capability	
4.1. 6	process received wideband data at an average aggregate rate of 12 Mbps	if multiple contacts are processed simultaneously
4.1. 7	provide on-line storage for temporary retention of LPS files for a maximum of 8 hours	
4.2.1	capability of transferring wideband data at a maximum rate of 75 Mbps per LPS input	
4.3.4	generate browse data with a reduction factor of 16 or better	
4.3.6	retain return link wideband data storage media for 30 days	requires an operational procedure

Attachment H - System Limitations

Attachment H contains the system limitations identified for the LPS Release 2.0 software. Each limitation is listed as affecting either all of LPS or a single subsystem. Those limitations representing software problems are followed by the appropriate (I)CCR identifiers.

LPS

1. Multiple subintervals in a single contact cause a system deadlock. (LPSI970289)

2. The output file directory structure does not agree with that specified in the User's Guide. (LPS960126)

3. Some, or all, Level 0R output files are not generated for some test data files. (LPSI960048, LPSI960053, LPSI960055, LPSI960057, LPSI970256, LPSI970261, LPSI970279, LPSI970303, LPSI970304, LPSI970319)

4. Scan direction is not handled correctly in this release. (LPSI970308)

5. The system time on the LPS computers must be set to GMT, otherwise capture schedules will be interpreted incorrectly and MFPS and PCDS will fail to process data. (LPSI970286)

MACS/User Interface

1. When the Contact_Schedules table is ingested or edited using the Ingest Contact Schedule sub menu or the View/Edit Capture Source sub menu under the Setup menu, no signal is sent to mac_AutoCapture. (LPSI970323)

2. Shutting down the LPS system from the GUI does not terminate the rcvddn process. (LPSI970175)

3. The LPS GUI main menu has a Start DDN Server checkbox sub menu item under the FileMgmt pulldown menu. When the GUI is first started, the DDN Server (rcvddn) is also started, but the checkbox is not initialized correctly to show this. (LPSI970295)

4. Reports generated from the LPS GUI cannot be printed. (LPSI970225)

5. The Start L0R window does not use the operator specified version number. (LPSI970241)

6. Reports contain incomplete and/or inaccurate information. (LPSI970225, LPSI970259, LPSI970252)

7. Captures based on contact schedules have to be stopped manually. (LPSI970293)

8. Some GUI screens appear as black foreground on black background (LPSI970221)

9. Data captured during the crossover from year 1999 to 2000 cannot be processed by LPS. (LPSI970299, LPSI970300)

RDPS

1. The maximum number of correctable errors for Reed/Solomon is 2 symbols.

2. The maximum number of correctable errors for BCH is 3 bits for each of 8 code blocks in the mission data zone and 3 bits for the data pointer code block.

MFPS

1. MFPS cannot handle EOC without a valid major frame. (LPSI970304)

2. MFPS discards major frames with line sync errors, EOL errors, or time code errors. (LPSI960136, LPSI960152, LPSI970198)

3. The first major frame in each contact is not processed. (LPSI9670073)

4. Negative values of FHSERR and SHSERR in the MSCD file are not correct. (LPSI960074)

IDPS

1. Subsampling is not implemented for browse files; all image reduction is performed by waveletting.

2. Subintervals containing more than two scenes may cause system failure. (LPSI970281)

3. ACCA scores are not correct. (LPSI970273, LPSI970275)

LDTS

1. The DAN format is inconsistent with the ECS ICD (LPSI970227)

2. Output files cannot be manually deleted via the User Interface. (LPSI970242)

3. The automatic deletion of output files cannot be overridden. (LPSI970251)

4. Electing to suspend DAN processing prevents data from being sent at a later time. (LPSI970250)

RDCS

1. rdc_Transmit sends garbled data. (LPSI970272)

2. Data can't be saved to tape from the User Interface. (LPSI970266)

3. rdc_Terminate does not work from the user interface. (LPSI970268)

4. Information is not aligned properly on tape labels. (LPSI970260, LPSI970277)

PCDS

1. The pcd program does not identify scene centers located before the first valid ephemeris or after the last valid ephemeris computed for the subinterval. (LPS970181)

2. Use of fill values other than 0xff can yield unpredictable results.

3. Threshold values in the database [valid_pcd_thres (num_failed_votes, num_missing_data_words)] must be greater than 0. Values of 0 will yield a floating point exception on the first occurrence of the associated error.

4. The PCD stop time reported in the pcd_acct database table is the time of the last non-fill major frame in the subinterval. If a subinterval concludes with one or more fill frames, then the PCD stop time is incorrect. (LPSI970194)

5. When Level 0R processing is unable to produce any ETM+ major frames, the following error message will be sent to the LPS Journal.

   [mfp_main.c:6787] No subinterval was ever detected.

   [mfp_Main.c:329] Error from mfp_MainProcNoMjf

   [mfp_MainCleanup.c:167] mfp_Maincleanup: FIRST ENTRY into mfp_MainCleanup

   [mfp_MainCleanup.c:250] mfp_MainCleanup: FIRST EXIT from mfp_MainCleanup

   [mfp_main.c:420] MFPS terminating Normally

   [lps_db_GetSubIntvInfor.c:205] Not a valid Sub Interval Sequence Id

   [pcd_MainDetermineScenes.c:281] Fatal error getting new subinterval start time

   [pcd_main.c:290] Error from pcd_MainDetermineScenes

   [lps_ProcessChildStatus.c:148] Child exited abnormally with status = 1

   [pcd_mainExitHandler.c:104] PCDS terminating on signal 15

   [pcd_MainCleanUP.c:134] Failed to detach from MFP-PCD shared memory area

[pcd_MainExitHandler.c:112] Error from pcd MainCleanup

Shared memory segments are deallocated correctly. No further operator actions are necessary.

6. If all time codes are invalid, an Oracle error occurs when accounting information is stored to the database. The error is incorrectly non-fatal. (LPSI970114)

7. Scene corners are calculated incorrectly. (LPSI970153)

8. The scene stop time is incorrect for the last scene in each subinterval. This causes the corresponding browse image to be short. (LPSI970306)

Attachment I - Release History Summary Matrix

Attachment I contains the Release History Summary Matrix that reflects the Landsat 7 Processing System (LPS) for Release 2.0.

Release History Summary Matrix						
RELEASE NAME: LPS				**Page 1 of 1**		
RELEASE NUMBER		**1.0**	**2.0**			
DELIVERY DATE		**02/03/97**	**07/23/97**			
SUBSYSTEM	**CI NO.**	**SOFTWARE VERSION NUMBER**				
GLOBALS	4.0	1.0	2.0			
RDCS	5.0	1.0	2.0			
RDPS	6.0	1.0	2.0			
MFPS	7.0	1.0	2.0			
PCDS	8.0	1.0	2.0			
IDPS	9.0	1.0	2.0			
MACS	10.0	1.0	2.0			
LDTS	11.0	1.0	2.0			
DB	12.0	1.0	2.0			
UI	13.0	1.0	2.0			

Attachment J - System Operational Changes

Attachment J contains the operational changes for the LPS Release 2.0.

The following subsystems contain no operational changes:

RDPS
MFPS
PCDS
Globals

RDCS

1. The LPS now uses the HPDI boards to perform data captures instead of the Mizar boards that were used in Release 1. It is no longer necessary to reset the boards manually following data captures.

2. The LPS provides the capability to restore captured raw wideband data previously saved on removable media to disk.

3. The LPS provides the capability to generate a tape label for captured raw wideband data saved onto removable media.

4. Data captures can be performed with the database down. The database is automatically resynchronized upon system initialization.

IDPS

1. Reduced multiband, multicolor, RIS24 browse image files are generated on a scene basis for format 1 data.

2. Multicolor LPS image data is continuously displayed in an active Moving Window Display as it is being processed into the LPS. The MWD terminates when the end of contact has been reached.

3. The LPS produces scene-based automatic cloud cover assessment scores for format 1 data. These data are stored as metadata.

LDTS

1. DANs are now automatically sent to the ECS upon completion of Level 0R processing.

2. LPS output files are automatically deleted upon successful completion of transfer to the ECS.

MACS

1. The LPS now provides the capability to propagate the contents of calibration parameter files from the IAS into designated strings. The calibration parameters are loaded into the TEST database instance of the development machine where their validity can be checked before being propagated onto the operational strings.

2. The LPS ingests contact schedule file contents into designated strings and uses them to initiate data captures. Contact schedule files from the MOC can be loaded into both the operational and development database instances.

3. The following three reports can now be generated from the LPS GUI: Data Receive Summary Report, LPS Quality/Accounting Report, and File Transfer Summary Report.

4. The complete LPS user interface is now available. The new UI screens are:

- View/Edit Capture Source
- Ingest Contact Schedules
- View/Edit Contact Schedules
- Load IAS Parameter File
- Propagate L0R Parameters
- View/Edit L0R Parameters
- View/Edit L0R Thresholds
- View/Edit Output File Transfer Config
- Start/Stop Copy To Tape
- Start/Stop Restage
- Start/Stop Auto Capture
- Generate Tape Label
- Data Receive Summary Report
- LPS Quality/Accounting Report
- File Transfer Summary Report
- Send Data
- Set DAN Transfer State Flag
- Resend Suspended DAN
- Resend Failed DAN
- Set Output File Deletion Flag
- Output File Set Management

Database

1. Five new database tables were added.

2. Referential integrity constraints were implemented.

Attachment K - References for Documentation

Attachment K contains a listing of the LPS Release 2.0 supporting documentation.

1. *Landsat 7 Processing System (LPS) Software Requirements Specification*, April 28, 1995 (560-8SWR/0195).

2. *Landsat 7 Processing System (LPS) Output Files Data Format Control Book*, November 14, 1996 (510-3FCD/0195).

3. *Landsat 7 Processing System (LPS) Interface Definitions Document (IDD*), October 1996 (514-3IDD/0195).

4. *Landsat 7 Processing System (LPS) Users Guide for Release2, July 1997* DRAFT(514-3SUG/0195).

5. *Landsat 7 Processing System (LPS) Build Implementation Plan*, September 1996 (514-4BIP/0195).

6. *Interface Control Document (ICD) Between the Image Assessment System (IAS) and the Landsat 7 Processing System (LPS)*, Revision 1 (514-1ICD/0195), July 29, 1996.

7. *Interface Control Document (ICD) Between the Landsat 7 Ground Station (LGS) and the Landsat 7 Processing System (LPS) Revision 1* (560-1ICD/0794), Oct. 17,1996.

8. *Landsat 7 Processing System (LPS) Detailed Design Specification* (514-4DDS/0195), November 1995.

9. *Landsat 7 Processing System (LPS) Functional and Performance Specification (F& PS)* (560- 8FPS/0194), Revision 1 w/ DCN 2, July 31, 1996.

10. *Landsat 7 Processing System (LPS) Operations Concept*, Revision 2 (560-3OCD/0194), April 15, 1996.

11. *Landsat 7 Processing System (LPS) System Design Specification* (560-8SDS/0194), May 26,1995.

*12. *Data Format Control Book (DFCB) Volume IV - Wideband Data For Landsat 7 System* (23007702-IVC), Revision C, April 4, 1996.

13. *Interface Control Document Between EOSDIS Core System (ECS) and the Landsat 7 System,* (209-CD0013-004), August 1996.

14. *Lansat 7 Processing System (LPS) Software Configuration Guide, Final Review, July 1997.*

* *The ETM+ time code data format is that from Revision D, February 11, 1997*

Attachment L - Static Database Table Contents

The following database tables contain static data for LPS Release 2.0 software:

LPS Static Database Tables on LPS003:

LPS_Configuration:

Name	Null?	Type	Value
LPS_HARDWARE_STRING_ID	NOT NULL	VARCHAR2(20)	lps_hostname
ECS_HARDWARE_STRING_ID	NOT NULL	VARCHAR2(20)	ecs_hostname
CAPTURE_SOURCE	NOT NULL	VARCHAR2(3)	1Q
SPACECRAFT_ID	NOT NULL	VARCHAR2(8)	Landsat7
INSTRUMENT_ID	NOT NULL	VARCHAR2(4)	ETM+
LPS_SOFTWARE_VER_NUM	NOT NULL	VARCHAR2(5)	1.0
LPS_USER_ID	NOT NULL	VARCHAR2(20)	lps_username
LPS_PASSWORD	NOT NULL	VARCHAR2(20)	lps_password
ECS_USER_ID	NOT NULL	VARCHAR2(20)	ecs_username
ECS_PASSWORD	NOT NULL	VARCHAR2(20)	ecs_password
LPS_PORT_NUM	NOT NULL	NUMBER(4)	6001
ECS_PORT_NUM	NOT NULL	NUMBER(4)	6002
IAS_PARAM_FILE_VER_NUM	NOT NULL	VARCHAR2(4)	1

LDT_DAN_Transfer_State:

Name	Null?	Type	Value
XFER_STATE	NOT NULL	NUMBER(1)	1

Valid_CCSDS_Parms:

Name	Null?	Type	Value
CCSDS_PARMS_ID	NOT NULL	NUMBER(10)	1
INSERTION_TIME	NOT NULL	DATE	sysdate
CADU_SEARCH_TOL	NOT NULL	NUMBER(1)	1
CADU_CHECK_TOL	NOT NULL	NUMBER(1)	2
CADU_FLYWHEEL_TOL	NOT NULL	NUMBER(1)	3
CADU_SYNC_MARK_CHECK_ERROR_TOL	NOT NULL	NUMBER(1)	1
CADU_SYNC_LOCK_ERROR_TOL	NOT NULL	NUMBER(1)	2
CADU_BIT_SLIP_CORR_EXTENT	NOT NULL	NUMBER(1)	3
XFER_FRAME_TROUBLE_FILE	NOT NULL	NUMBER(1)	1
BCH_FLAG	NOT NULL	NUMBER(1)	1

Valid_LDT_parms:

Name	Null?	Type	Value
NUM_AUTH_REQUEST	NOT NULL	NUMBER(4)	1
TIMEOUT_AUTH_REQUEST	NOT NULL	NUMBER(4)	2
NUM_SEND_DAN_ATTEMPT	NOT NULL	NUMBER(4)	3
TIMEOUT_SEND_DAN_ATTEMPT	NOT NULL	NUMBER(4)	4
TIMEOUT_RECEIVE_DAA	NOT NULL	NUMBER(4)	180
TIMEOUT_RECEIVE_DDN	NOT NULL	NUMBER(4)	30
NUM_SEND_DDA_ATTEMPT	NOT NULL	NUMBER(4)	7
TIMEOUT_SEND_DDA	NOT NULL	NUMBER(4)	30
READ_SLEEP_SECOND	NOT NULL	NUMBER(10)	9
LDT_ECS_MSG_SAVE	NOT NULL	NUMBER(1	1

Valid_RDP_Thres:

Name	Null?	Type	Value
SYNC_THRES	NOT NULL	NUMBER(8)	125
CRC_THRES	NOT NULL	NUMBER(8)	2
RS_THRES	NOT NULL	NUMBER(8)	10
BCH_THRES	NOT NULL	NUMBER(8)	10

Valid_PCD_Parms:

Name	Null?	Type	Value
PCD_FRAME_FILL	NOT NULL	NUMBER(8)	255

Valid_PCD_Thres:

Name	Null?	Type	Value
EPHEM_POSITION_UPPER	NOT NULL	NUMBER(9,2)	7120
EPHEM_POSITION_LOWER	NOT NULL	NUMBER(9,2)	7050
EPHEM_VELOCITY_UPPER	NOT NULL	NUMBER(3,2)	7.6
EPHEM_VELOCITY_LOWER	NOT NULL	NUMBER(3,2)	7.4
EPHEM_CROSSPRODUCT_MAX	NOT NULL	NUMBER(7,2)	53200
EPHEM_CROSSPRODUCT_MIN	NOT NULL	NUMBER(7,2)	53000
ATTITUDE_QUATERNION_TOL	NOT NULL	NUMBER(8,6)	.0001
NUM_MISSING_DATA_WORDS	NOT NULL	NUMBER(8)	1
NUM_FAILED_VOTES	NOT NULL	NUMBER(8)	1

Valid_MFP_Parms:

Name	Null?	Type	Value
FILL_VALUE	NOT NULL	NUMBER(6)	233
SUB_INTV_DELTA	NOT NULL	NUMBER(10,7)	23
MJF_DATA_PERIOD	NOT NULL	NUMBER(8,7)	.071375
TIME_RANGE_TOL	NOT NULL	NUMBER(8,7)	.0005
MAJ_VOTE_TOL	NOT NULL	NUMBER(8)	36
MAX_TIME_SPAN	NOT NULL	NUMBER(8)	2
EOL_TOL	NOT NULL	NUMBER(8)	20
MJF_SYNC_TOL	NOT NULL	NUMBER(8)	20
MJF_SYNC_SIZE	NOT NULL	NUMBER(8)	60
MAX_MNF_COUNTER	NOT NULL	NUMBER(8)	7600
ETM_PLUS_TROUBLE_FILE	NOT NULL	NUMBER(1)	0
MIN_MJF_COUNT_PER_SUB_INTV	NOT NULL	NUMBER(8)	5

Valid_MFP_Thres:

Name	Null?	Type	Value
MJF_CADU_SEQ_ERR_THRES	NOT NULL	NUMBER(8)	1
MJF_SYNC_THRES	NOT NULL	NUMBER(8)	20
MNF_CTR_THRES	NOT NULL	NUMBER(8)	20
EOL_THRES	NOT NULL	NUMBER(8)	20
TC_THRES	NOT NULL	NUMBER(8)	20
FULL_MJF_THRES	NOT NULL	NUMBER(8)	1000
PART_MJF_THRES	NOT NULL	NUMBER(8)	100
SUB_INTV_SIZE_THRES	NOT NULL	NUMBER(8)	20

Valid_Band_Parms:

Name	Null?	Type	Value
MULTI1	NOT NULL	NUMBER(1)	3
MULTI2	NOT NULL	NUMBER(1)	5
MULTI3	NOT NULL	NUMBER(1)	2
SUBS	NOT NULL	NUMBER(3)	1
WAVE	NOT NULL	NUMBER(3)	3
JPEG_QUALITY	NOT NULL	NUMBER(3)	70
CONTRAST_STRETCH_FACTOR	NOT NULL	NUMBER(3)	3

Valid_MWD_Parms:

Name	Null?	Type	Value
FMT1_RED_BAND	NOT NULL	NUMBER(1)	3
FMT1_GREEN_BAND	NOT NULL	NUMBER(1)	5
FMT1_BLUE_BAND	NOT NULL	NUMBER(1)	2
FMT2_RED_BAND	NOT NULL	NUMBER(1)	6
FMT2_GREEN_BAND	NOT NULL	NUMBER(1)	7
FMT2_BLUE_BAND	NOT NULL	NUMBER(1)	8
XOPTIONS	NOT NULL	VARCHAR2(256)	NOOPTIONS

Valid_Scene_Parms:

Name	Null?	Type	Value
ETM_BODY_TRANS_MATRIX_11	NOT NULL	NUMBER(3,2)	1
ETM_BODY_TRANS_MATRIX_12	NOT NULL	NUMBER(3,2)	0
ETM_BODY_TRANS_MATRIX_13	NOT NULL	NUMBER(3,2)	0
ETM_BODY_TRANS_MATRIX_21	NOT NULL	NUMBER(3,2)	0
ETM_BODY_TRANS_MATRIX_22	NOT NULL	NUMBER(3,2)	1
ETM_BODY_TRANS_MATRIX_23	NOT NULL	NUMBER(3,2)	0
ETM_BODY_TRANS_MATRIX_31	NOT NULL	NUMBER(3,2)	0
ETM_BODY_TRANS_MATRIX_32	NOT NULL	NUMBER(3,2)	0
ETM_BODY_TRANS_MATRIX_33	NOT NULL	NUMBER(3,2)	1
SEMI_MAJOR_AXIS	NOT NULL	NUMBER(10,3)	6378137
SEMI_MINOR_AXIS	NOT NULL	NUMBER(10,3)	6356752.31

Due to the size of the Valid_WRS_Parms table this static data table was not listed.

Attachment M - LPS Hardware Report

Attachment M contains the Hardware Report and the COTS Products for LPS Release 2.0.

LPS HARDWARE REPORT (1 OF 2)

ITEM	DESCRIPTION		QTY	ECN NO.
1	SGI CHALLENGE XL COMPUTERS		5	.....
	S/N: S39406	(String1)		1523925
	S/N: S46910	(String2)		1816994
	S/N: S46911	(String3)		1816993
	S/N: S46908	(String4)		1816996
	S/N: S37891	(String5)		1422266
2	EQUIPMENT RACKS		5	.....
	(Each rack contents two (2)	(String1)		N/A
	Ciprico RAIDs and one (1)	(String2)		N/A
	BoxHill MDL1C-7-DLT4	(String3)		N/A
	Media Changer) (see note 1)	(String4)		N/A
		(String5)		N/A
3	SGI INDY WORKSTATIONS DISPLAYS		3	.....
	S/N: 2475339	(L7Indy #8)		1700455
	S/N: 2475336	(L7Indy #9)		1700300
	S/N: 2404317	(L7Indy #3)		1422249
4	SGI INDY WORKSTATIONS BASES		3	.....
	S/N: 08006909EEE9	(L7Indy #8)		1700299
	S/N: 0800690A36C8	(L7Indy #9)		1700452
	S/N:080069089491	(L7Indy #3)		1422248
5	NCD X-TERMS		2	.....
	S/N:410119-179			1532590
	S/N:410119-174			1532588
6	NCD X-TERMS BASES		2	.....
	S/N:0995T002544			1532587
	S/N:0995T002552			1532586
7	CABLES		2	N/A
8	MISC		2	N/A
9	EPSON PRINTERS (LQ-570+)		5	.....
	S/N: 1F8E567833			1817001
	S/N: 1F8E567827			1816999
	S/N: 1F8E567830			1816998
	S/N: 1F8E567826			1816997
	S/N: 1F8E441825			1816995
10	HP LASERJET PRINTERS		2	.....
	S/N: USLB010750			1755022
	S/N: USLB010751			1755021
11	MATRIX SWITCH			
	S/N:129791		1	1529369
12	DOCUMENTATION BOX		1	N/A

LPS HARDWARE REPORT (2 OF 2)

ITEM	DESCRIPTION	QTY	ECN NO.
13	ETHERNET HUB	1	1817003
14	IRISconsole Unit	1	1750903

Note 1: List of subsystems installed on Equipment Racks

Equipment Rack	Subsystem Model and S/N	ECN No.
LPS STRING 1	Ciprico RAID Model AR6712 - S/N: 001920	1529135
	Ciprico RAID Model AR6712 - S/N: 001919	1529136
	BoxHill MDLC1-7-DLT 4 - S/N: 55787	1816987
LPS STRING 2	Ciprico RAID Model AR6712 - S/N: 002664	17700919
	Ciprico RAID Model AR6712 - S/N: 002659	17700920
	BoxHill MDLC1-7-DLT 4 - S/N: 55783	1816992
LPS STRING 3	Ciprico RAID Model AR6712 - S/N: 002660	17700924
	Ciprico RAID Model AR6712 - S/N: 002663	17700925
	BoxHill MDLC1-7-DLT 4 - S/N: 55786	1816991
LPS STRING 4	Ciprico RAID Model AR6712 - S/N: 002662	17700923
	Ciprico RAID Model AR6712 - S/N: 002661	17700922
	BoxHill MDLC1-7-DLT 4 - S/N: 55785	1816990
LPS STRING 5	Ciprico RAID Model AR6712 - S/N: 001915	1529137
	Ciprico RAID Model AR6712 - S/N: 001916	1529138
	BoxHill MDLC1-7-DLT 4 - S/N: 55782	1816988

LPS COTS PRODUCTS

Computer System	OS	Oracle Server & Developer 2000	NCDWare 4.1	Prodev Workshop	ANSI-C& IRIS POWER C	FDDI 3.0.4	NFS	IRIS Conso
lps005 (lpsdev1)	IRIX6.2	X		X	X	X	X	
lps001	IRIX6.2	X		X	X	X	X	
lps002	IRIX6.2	X		X	X	X	X	
lps003	IRIX6.2	X		X	X	X	X	
lps004	IRIX6.2	X		X	X	X	X	
l7indy3	IRIX6.2							X
l7indy8	IRIX6.2		X					
l7indy9	IRIX6.2		X					

Seats:

Oracle	5
Prodev Workshop	5
Others	Unlimited

Attachment N - Notes

How to use the transmitt function (Hpdixmit) on LPS.

The hpdixmit executable allows the user to operate the transmit function inherent to all LPS strings. To use the transmit function on a string follow the steps outlined below:

1. Log into the string from which you wish to transmit data from.

2. CD to the directory where hpdixmit and vmereset executables reside. The directory should be "/usr/LPS/at/tools/vsio_tools"

3. type "vmereset -a 61" to reset the VSIO card prior to transmitting.
   You will have to type a "Y" when prompted to continue or not.

4. The usage for the hpdixmit tool is as follows:

   hpdixmit <path> /dev/hpdiB

   Where: path = the directory where the file to transmit resides.

   /dev/hpdiB is fixed and must be included as indicated

   Example: hpdixmit /u02/data/header /dev/hpdiB

   The above example will transmit the contents of the file "header"located in the /u02/data directory.

5. Enter the command described in step 4, hit <CR> and observe the following:

```
hpdi
    board_addr: 0x0
    num_of_addresses: 2
    vme_addr: 0x10014000 0x10a18000
    count: 0x40000
    bank: 0x1000000
    num_of_msgs: 40
    DMA_mode: 0x800
    interrupt: 0x100
    board: 0xffffffff
```

```
    width: 0x2
    xmit_flags: 0x510
    rec_flags: 0x3c0d0fbd
    Output file: </u02/data/header>
react is on
transmitting data from file </u02/data/header>
SIOCR: 0xffffd693
SIOCR: 0xffff9e93

Press any key when ready to start transmitter
```

6. The program has initialized the VSIO card and is ready to start transmitting. At this point the capture on the target system should be activated. Step 5 results in a small amount of data being sent out of the card during the initialization. If the capture on the receiving string is on, the initialization data will end up being captured which is not desirable.

7. Hit any key and the transmit function will begin. A series of dots will sequentially appear on the screen from left to right. Each dot indicates that 10 MBytes of data have been transmitted. When the end of the file has been reached a read error message will appear and the transmit will automatically end. The following is exactly what will appear after the "hit any key" step is performed:

```
.............read failed: Error 0.react is off
Total Time:                 16.788149 seconds
Total Data transfered:      1258291200 bits
Transfer Rate:              74951160 bits/sec
```

8. To stop a transmit prior to it's normal conclusion, simply type CTRL C and the process will terminate.

9. The transmit function transfers files which are an integral number of 10 MByte (10485760 Bytes) in size. If the transmit file is not an integral number of 10 MBytes the last portion of the file beyond the last 10 MB boundary will not be sent.