# XMM Optical Monitor

**MULLARD SPACE SCIENCE LABORATORY**
**UNIVERSITY COLLEGE LONDON** **Author: P J Smith**

## SOFTWARE STATUS FOR THE EM

**Document Number: XMM-OM/MSSL/SP/0150.02 12 September 1997**

**Distribution:**

| | | |
|---|---|---|
| XMM-OM Project Office | R Hunt | Orig. |
| ESA PX | H Eggel | |
| CSL | P Rochus | |
| | S. Roose | |
| UCSB | T Sasseen | |
| Royal Greenwich Observatory | R Bingham | |
| University College London | J Fordham | |
| Mullard Space Science Laboratory | R Card | |
| | M Carter | |
| | R Chaudery | |
| | A Dibbens | |
| | J Holmes | |
| | H Huckle | |
| | H Kawakami | |
| | T Kennedy | |
| | D Self | |
| | P Smith | |
| | P Thomas | |
| | M Whillock | |
| | K Mason | |
| | A Smith | |

Author: Date:

OM Project Office Date:

Distributed: Date:

**CHANGE RECORD**

| ISSUE | DATE | PAGES CHANGED | COMMENTS |
|---|---|---|---|
| 01 | 8 August 1997 | All New | |
| 02 | 12September 1997 | All | Inclusion of DPU software and general editing |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## CONTENTS

## 1. INTRODUCTION

This document contains all the software files and their version numbers used for Basic Mode, Operational Mode, Ground support and Testing and House Keeping for the Optical Monitor EM.
All the files are kept under version control using cvs.
There is a Makefile for each set of program files for use with GNU make.
All these files have a cvs tag of em_rel2.
Mention is also made of some known problems and some deliberately omitted functionality.

## 2. BASIC MODE PROGRAM FILES

hex file: icu/em/basic/icu.hex
size: 172935
MD5 (icu.hex) = 5caf5ca4d25db5c4ed5829a4ebb11393
cvs tags: icu_rel2, icu_rel3

hex file for making EEPROM: icu/em/basic/eprom_1.7/prom.hex
size: 78337
MD5 (prom.hex) = 12274d83a6a026e1dd5ff70c70febd6f
cvs tag: eprom_1.7

CVS status of the icu basic mode code in icu/em/basic/:

| | | | |
|---|---|---|---|
| File: INTVEC.asm | Working revision: | 1.1 | Tue Jul 22 17:55:02 1997 |
| File: Makefile | Working revision: | 1.16 | Thu Jul 31 09:42:01 1997 |
| File: USERDEFS.asm | Working revision: | 1.1 | Tue Jul 22 17:57:05 1997 |
| File: bcp4_dummy.adb | Working revision: | 1.1 | Tue Jul 22 17:21:53 1997 |
| File: bcp4_dummy.ads | Working revision: | 1.1 | Tue Jul 22 17:21:53 1997 |
| File: bcp4_ih.ads | Working revision: | 1.1 | Tue Jul 22 17:21:53 1997 |
| File: bcp4_ih.asm | Working revision: | 1.1 | Tue Jul 22 17:57:05 1997 |
| File: bsio.asm | Working revision: | 1.1 | Sat Jul 26 00:46:40 1997 |
| File: crc.adb | Working revision: | 1.1 | Tue Jul 22 17:21:54 1997 |
| File: crc.ads | Working revision: | 1.1 | Tue Jul 22 17:21:54 1997 |
| File: debug.adb | Working revision: | 1.1 | Tue Jul 22 17:21:54 1997 |
| File: debug.ads | Working revision: | 1.1 | Tue Jul 22 17:21:55 1997 |
| File: dempsu.adb | Working revision: | 1.1 | Tue Jul 22 17:21:55 1997 |
| File: dempsu.ads | Working revision: | 1.1 | Tue Jul 22 17:21:55 1997 |
| File: detanalog.adb | Working revision: | 1.1 | Tue Jul 22 17:21:55 1997 |
| File: detanalog.ads | Working revision: | 1.1 | Tue Jul 22 17:21:56 1997 |
| File: detdigital.adb | Working revision: | 1.1 | Tue Jul 22 17:21:56 1997 |
| File: detdigital.ads | Working revision: | 1.1 | Tue Jul 22 17:21:57 1997 |
| File: detector.ads | Working revision: | 1.1 | Tue Jul 22 17:21:57 1997 |
| File: detoff.ada | Working revision: | 1.1 | Tue Jul 22 17:21:57 1997 |
| File: dum.ada | Working revision: | 1.1 | Tue Jul 22 17:21:59 1997 |
| File: emboot.asm | Working revision: | 1.3 | Fri Aug 1 10:58:55 1997 |
| File: emsubs.asm | Working revision: | 1.3 | Fri Aug 1 10:58:56 1997 |
| File: heater.adb | Working revision: | 1.1 | Tue Jul 22 17:22:00 1997 |
| File: heater.ads | Working revision: | 1.1 | Tue Jul 22 17:22:00 1997 |
| File: hello.ada | Working revision: | 1.1 | Tue Jul 22 17:22:00 1997 |
| File: hk.adb | Working revision: | 1.2 | Thu Jul 24 14:24:52 1997 |
| File: hk.ads | Working revision: | 1.1 | Tue Jul 22 17:22:01 1997 |
| File: icb.adb | Working revision: | 1.1 | Tue Jul 22 17:22:01 1997 |
| File: icb.ads | Working revision: | 1.1 | Tue Jul 22 17:22:02 1997 |
| File: icb_driver.adb | Working revision: | 1.2 | Thu Jul 24 14:24:52 1997 |
| File: icb_driver.ads | Working revision: | 1.1 | Tue Jul 22 17:22:03 1997 |
| File: icu.ada | Working revision: | 1.2 | Thu Jul 24 15:29:55 1997 |
| File: icu_mem_manager.adb | Working revision: | 1.5 | Fri Jul 25 20:47:08 1997 |
| File: icu_mem_manager.ads | Working revision: | 1.2 | Tue Jul 22 19:13:09 1997 |
| File: importance.ads | Working revision: | 1.1 | Tue Jul 22 17:22:03 1997 |

| | | | |
|---|---|---|---|
| File: kfj_packet_sorter.ada | Working revision: | 1.1 | Tue Jul 22 17:22:03 1997 |
| File: load_window_table_task.adb | Working revision: | 1.1 | Tue Jul 22 17:22:04 1997 |
| File: load_windows.adb | Working revision: | 1.1 | Tue Jul 22 17:22:04 1997 |
| File: mechanism.adb | Working revision: | 1.1 | Tue Jul 22 17:22:05 1997 |
| File: mechanism.ads | Working revision: | 1.1 | Tue Jul 22 17:22:05 1997 |
| File: mem_manager.adb | Working revision: | 1.3 | Thu Jul 24 22:37:28 1997 |
| File: mem_manager.ads | Working revision: | 1.2 | Tue Jul 22 19:13:10 1997 |
| File: memdpu.adb | Working revision: | 1.1 | Tue Jul 22 17:22:05 1997 |
| File: memdpu.ads | Working revision: | 1.1 | Tue Jul 22 17:22:06 1997 |
| File: memloc.ads | Working revision: | 1.1 | Tue Jul 22 17:22:06 1997 |
| File: modeman.adb | Working revision: | 1.3 | Thu Jul 24 22:37:47 1997 |
| File: modeman.ads | Working revision: | 1.1 | Tue Jul 22 17:22:06 1997 |
| File: mutex.adb | Working revision: | 1.1 | Tue Jul 22 17:22:08 1997 |
| File: mutex.ads | Working revision: | 1.1 | Tue Jul 22 17:22:08 1997 |
| File: new_packet.ads | Working revision: | 1.1 | Tue Jul 22 17:22:09 1997 |
| File: nhk.adb | Working revision: | 1.1 | Tue Jul 22 17:22:09 1997 |
| File: nhk.ads | Working revision: | 1.1 | Tue Jul 22 17:22:09 1997 |
| File: om_time.adb | Working revision: | 1.1 | Tue Jul 22 17:22:10 1997 |
| File: om_time.ads | Working revision: | 1.1 | Tue Jul 22 17:22:10 1997 |
| File: packet.ads | Working revision: | 1.2 | Thu Jul 24 14:24:53 1997 |
| File: peek_poke.ads | Working revision: | 1.2 | Tue Jul 22 19:13:11 1997 |
| File: peek_poke.asm | Working revision: | 1.2 | Tue Jul 22 19:13:11 1997 |
| File: rbi.adb | Working revision: | 1.3 | Thu Jul 24 14:24:53 1997 |
| File: rbi.ads | Working revision: | 1.1 | Tue Jul 22 17:22:11 1997 |
| File: rbi_dummy.adb | Working revision: | 1.1 | Tue Jul 22 17:22:11 1997 |
| File: rbi_dummy.ads | Working revision: | 1.1 | Tue Jul 22 17:22:12 1997 |
| File: rbi_ih.ads | Working revision: | 1.1 | Tue Jul 22 17:22:12 1997 |
| File: rbi_ih.asm | Working revision: | 1.3 | Thu Jul 24 22:38:13 1997 |
| File: rbi_int.adb | Working revision: | 1.1 | Tue Jul 22 17:22:12 1997 |
| File: rbi_int.ads | Working revision: | 1.1 | Tue Jul 22 17:22:13 1997 |
| File: reset.ads | Working revision: | 1.3 | Thu Jul 24 22:38:55 1997 |
| File: reset.asm | Working revision: | 1.4 | Fri Jul 25 20:45:26 1997 |
| File: science.adb | Working revision: | 1.1 | Tue Jul 22 17:22:13 1997 |
| File: science.ads | Working revision: | 1.1 | Tue Jul 22 17:22:13 1997 |
| File: task_report.adb | Working revision: | 1.1 | Tue Jul 22 17:22:17 1997 |
| File: task_report.ads | Working revision: | 1.1 | Tue Jul 22 17:22:17 1997 |
| File: taskman.adb | Working revision: | 1.2 | Thu Jul 24 14:24:54 1997 |
| File: taskman.ads | Working revision: | 1.1 | Tue Jul 22 17:22:18 1997 |
| File: tc_q.adb | Working revision: | 1.1 | Tue Jul 22 17:22:18 1997 |
| File: tc_q.ads | Working revision: | 1.1 | Tue Jul 22 17:22:18 1997 |
| File: tc_verify.adb | Working revision: | 1.1 | Tue Jul 22 17:22:19 1997 |
| File: tc_verify.ads | Working revision: | 1.1 | Tue Jul 22 17:22:19 1997 |
| File: tcproc.ada | Working revision: | 1.1 | Tue Jul 22 17:22:19 1997 |
| File: tcq.adb | Working revision: | 1.2 | Thu Jul 24 14:24:54 1997 |
| File: tcq.ads | Working revision: | 1.1 | Tue Jul 22 17:22:20 1997 |
| File: test_proc.adb | Working revision: | 1.1 | Tue Jul 22 17:22:20 1997 |
| File: test_proc2.adb | Working revision: | 1.1 | Tue Jul 22 17:22:21 1997 |
| File: text_packets.adb | Working revision: | 1.1 | Tue Jul 22 17:22:21 1997 |
| File: text_packets.ads | Working revision: | 1.1 | Tue Jul 22 17:22:21 1997 |
| File: time_man.adb | Working revision: | 1.1 | Tue Jul 22 17:22:22 1997 |
| File: time_man.ads | Working revision: | 1.1 | Tue Jul 22 17:22:22 1997 |
| File: time_mand.adb | Working revision: | 1.1 | Tue Jul 22 17:22:22 1997 |
| File: tlink17.lcf | Working revision: | 1.3 | Thu Jul 24 22:40:18 1997 |
| File: tm_q.adb | Working revision: | 1.1 | Tue Jul 22 17:22:23 1997 |
| File: tm_q.ads | Working revision: | 1.1 | Tue Jul 22 17:22:23 1997 |
| File: tmpsu.adb | Working revision: | 1.2 | Thu Jul 24 14:24:54 1997 |
| File: tmpsu.ads | Working revision: | 1.1 | Tue Jul 22 17:22:24 1997 |
| File: tmq.adb | Working revision: | 1.1 | Tue Jul 22 17:22:24 1997 |
| File: tmq.ads | Working revision: | 1.1 | Tue Jul 22 17:22:24 1997 |
| File: types.ads | Working revision: | 1.1 | Tue Jul 22 17:22:25 1997 |

## 3. OPERATIONAL MODE PROGRAM FILES:

file: icu/em/oper/icu.hex
size: 434403
MD5 (icu.hex) = 77c0f8ce462b36dc7f68023d5b8c33e2
cvs tag: icu_rel3

From the hex file above, the binary packet files were created.

These files are stored in an archives with a filenames like:
icu_rel3.zip for the loadable operational mode code in packets (many binary files)
icu_em_rel3_src.zip for the source code for the above
icu_hex_rel3.zip for the icu.hex file

CVS status of the icu operational mode code in icu/em/oper/:

```
File: INTVEC.asm          Status: Up-to-date
   Working revision:      1.5       Fri Jul 18 21:19:07 1997
File: Makefile            Status: Up-to-date
   Working revision:      1.21      Fri Jul 18 18:53:35 1997
File: USERDEFS.asm        Status: Up-to-date
   Working revision:      1.1       Mon Jul  7 18:52:14 1997
File: adamakedepend       Status: Up-to-date
   Working revision:      1.3       Fri Jul 18 21:25:16 1997
File: bcp4_dummy.adb      Status: Up-to-date
   Working revision:      1.1       Wed Jun 11 14:47:23 1997
File: bcp4_dummy.ads      Status: Up-to-date
   Working revision:      1.1       Wed Jun 11 14:47:24 1997
File: bcp4_ih.ads         Status: Up-to-date
   Working revision:      1.2       Wed Jul  9 17:58:21 1997
File: bcp4_ih.asm         Status: Up-to-date
   Working revision:      1.3       Fri Jul 11 20:12:03 1997
File: crc.adb             Status: Up-to-date
   Working revision:      1.2       Fri Jul  4 13:54:52 1997
File: crc.ads             Status: Up-to-date
   Working revision:      1.2       Fri Jul  4 13:54:52 1997
File: debug.adb           Status: Up-to-date
   Working revision:      1.5       Mon Sep  8 14:16:03 1997
File: debug.ads           Status: Up-to-date
   Working revision:      1.4       Mon Sep  8 14:15:35 1997
File: dempsu.adb          Status: Up-to-date
   Working revision:      1.2       Fri Jul  4 13:54:52 1997
File: dempsu.ads          Status: Up-to-date
   Working revision:      1.2       Fri Jul  4 13:54:52 1997
File: detanalog.adb       Status: Up-to-date
   Working revision:      1.3       Thu Jul 31 09:40:53 1997
File: detanalog.ads       Status: Up-to-date
   Working revision:      1.2       Fri Jul  4 13:54:53 1997
File: detdigital.adb      Status: Up-to-date
   Working revision:      1.5       Thu Jul 31 09:40:53 1997
File: detdigital.ads      Status: Up-to-date
   Working revision:      1.2       Fri Jul  4 13:54:53 1997
File: detector.ads        Status: Up-to-date
   Working revision:      1.3       Fri Jul 18 20:53:39 1997
File: dpu.adb             Status: Up-to-date
   Working revision:      1.5       Fri Jul 18 19:26:00 1997
File: dpu.ads             Status: Up-to-date
   Working revision:      1.3       Mon Jul 14 15:20:13 1997
File: dpu_mem_manager.adb           Status: Up-to-date
   Working revision:      1.9       Mon Sep  8 14:22:26 1997
```

```
File: dpu_mem_manager.ads          Status: Up-to-date
   Working revision:     1.1       Fri Jul  4 13:50:27 1997
File: dpu_mnemo.ads        Status: Up-to-date
   Working revision:     1.1       Fri Jul  4 13:52:11 1997
File: heater.adb           Status: Up-to-date
   Working revision:     1.3       Thu Jul 31 09:40:53 1997
File: heater.ads           Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:53 1997
File: hk.adb               Status: Up-to-date
   Working revision:     1.9       Mon Sep  8 14:23:14 1997
File: hk.ads               Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:54 1997
File: icb.adb              Status: Up-to-date
   Working revision:     1.4       Thu Jul 31 09:40:54 1997
File: icb.ads              Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:54 1997
File: icb_driver.adb       Status: Up-to-date
   Working revision:     1.5       Mon Sep  8 14:24:25 1997
File: icb_driver.ads       Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:54 1997
File: icu.ada              Status: Up-to-date
   Working revision:     1.10      Wed Aug  6 12:36:08 1997
File: icu_mem_manager.adb          Status: Up-to-date
   Working revision:     1.7       Mon Sep  8 14:26:43 1997
File: icu_mem_manager.ads          Status: Up-to-date
   Working revision:     1.1       Fri Jun 20 15:21:58 1997
File: importance.ads       Status: Up-to-date
   Working revision:     1.2       Fri Jul 11 20:14:53 1997
File: kfj_packet_sorter.ada        Status: Up-to-date
   Working revision:     1.1       Wed Jun 11 14:47:33 1997
File: load_window_table_task.adb  Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:54 1997
File: load_windows.adb     Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:54 1997
File: mechanism.adb        Status: Up-to-date
   Working revision:     1.5       Wed Aug  6 12:36:08 1997
File: mechanism.ads        Status: Up-to-date
   Working revision:     1.5       Wed Aug  6 12:36:08 1997
File: mem_manager.adb      Status: Up-to-date
   Working revision:     1.6       Mon Sep  8 14:28:29 1997
File: mem_manager.ads      Status: Up-to-date
   Working revision:     1.1       Fri Jun 20 15:19:10 1997
File: memdpu.adb           Status: Up-to-date
   Working revision:     1.2       Fri Jul 18 19:44:05 1997
File: memdpu.ads           Status: Up-to-date
   Working revision:     1.2       Fri Jul 11 20:27:02 1997
File: memloc.ads           Status: Up-to-date
   Working revision:     1.7       Wed Jul  9 21:48:10 1997
File: modeman.adb          Status: Up-to-date
   Working revision:     1.1       Mon Jul 14 15:07:55 1997
File: modeman.ads          Status: Up-to-date
   Working revision:     1.1       Mon Jul 14 15:07:56 1997
File: mutex.adb            Status: Up-to-date
   Working revision:     1.1       Wed Jun 11 14:47:36 1997
File: mutex.ads            Status: Up-to-date
   Working revision:     1.1       Wed Jun 11 14:47:36 1997
File: new_packet.ads       Status: Up-to-date
   Working revision:     1.2       Fri Jul  4 13:54:55 1997
File: nhk.adb              Status: Up-to-date
   Working revision:     1.1       Wed Jun 11 14:47:37 1997
File: nhk.ads              Status: Up-to-date
```

| | | |
|---|---|---|
| Working revision: | 1.1 | Wed Jun 11 14:47:37 1997 |
| File: om_time.adb | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:38 1997 |
| File: om_time.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:38 1997 |
| File: packet.ads | Status: Up-to-date | |
| Working revision: | 1.6 | Mon Sep 8 14:33:00 1997 |
| File: peek_poke.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Fri Jul 4 13:51:08 1997 |
| File: peek_poke.asm | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jul 9 15:14:03 1997 |
| File: rbi.adb | Status: Up-to-date | |
| Working revision: | 1.6 | Mon Sep 8 14:34:43 1997 |
| File: rbi.ads | Status: Up-to-date | |
| Working revision: | 1.4 | Mon Sep 8 14:34:22 1997 |
| File: rbi_dummy.adb | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:39 1997 |
| File: rbi_dummy.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:40 1997 |
| File: rbi_ih.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Sun Jul 6 21:35:03 1997 |
| File: rbi_ih.asm | Status: Up-to-date | |
| Working revision: | 1.7 | Fri Jul 25 14:54:31 1997 |
| File: rbi_int.adb | Status: Up-to-date | |
| Working revision: | 1.4 | Wed Jul 9 18:00:31 1997 |
| File: rbi_int.ads | Status: Up-to-date | |
| Working revision: | 1.4 | Wed Jul 9 18:00:32 1997 |
| File: reset.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jul 9 20:54:34 1997 |
| File: reset.asm | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 18 20:39:20 1997 |
| File: science.adb | Status: Up-to-date | |
| Working revision: | 1.4 | Mon Sep 8 14:35:34 1997 |
| File: science.ads | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 11 20:46:18 1997 |
| File: ssi_driver.adb | Status: Up-to-date | |
| Working revision: | 1.8 | Fri Jul 18 21:20:50 1997 |
| File: ssi_driver.ads | Status: Up-to-date | |
| Working revision: | 1.3 | Tue Jul 15 14:07:49 1997 |
| File: ssi_dummy.adb | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:55 1997 |
| File: ssi_dummy.ads | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:56 1997 |
| File: ssi_ih.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jul 9 20:51:04 1997 |
| File: ssi_ih.asm | Status: Up-to-date | |
| Working revision: | 1.5 | Fri Jul 18 21:21:21 1997 |
| File: ssi_in.adb | Status: Up-to-date | |
| Working revision: | 1.6 | Mon Sep 8 14:36:40 1997 |
| File: ssi_in.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jul 9 17:51:56 1997 |
| File: ssi_out.adb | Status: Up-to-date | |
| Working revision: | 1.6 | Mon Sep 8 14:36:40 1997 |
| File: ssi_out.ads | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 18 19:44:26 1997 |
| File: task_report.adb | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:41 1997 |
| File: task_report.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:42 1997 |
| File: taskman.adb | Status: Up-to-date | |
| Working revision: | 1.6 | Mon Sep 8 14:37:10 1997 |

| | | |
|---|---|---|
| File: taskman.ads | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:43 1997 |
| File: tc_q.adb | Status: Up-to-date | |
| Working revision: | 1.3 | Fri Jul 4 13:54:56 1997 |
| File: tc_q.ads | Status: Up-to-date | |
| Working revision: | 1.3 | Fri Jul 4 13:54:56 1997 |
| File: tc_verify.adb | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:56 1997 |
| File: tc_verify.ads | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:56 1997 |
| File: tcproc.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:45 1997 |
| File: tcq.adb | Status: Up-to-date | |
| Working revision: | 1.5 | Thu Jul 31 09:40:55 1997 |
| File: tcq.ads | Status: Up-to-date | |
| Working revision: | 1.3 | Fri Jul 4 13:54:56 1997 |
| File: test_bcp4.ada | Status: Up-to-date | |
| Working revision: | 1.3 | Tue Jul 8 15:15:17 1997 |
| File: test_centroid_tables.ada | | Status: Up-to-date |
| Working revision: | 1.2 | Fri Jul 4 13:54:57 1997 |
| File: test_coarse_on.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:57 1997 |
| File: test_currents.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:57 1997 |
| File: test_datum.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:48 1997 |
| File: test_detmon.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_dm.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:49 1997 |
| File: test_em_adc.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_em_icb.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_find_datum.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:50 1997 |
| File: test_fine.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_fs.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_fw.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:51 1997 |
| File: test_heaters.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_hk.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:52 1997 |
| File: test_hv.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_mech.ada | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:53 1997 |
| File: test_phase.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:58 1997 |
| File: test_proc.adb | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:59 1997 |
| File: test_proc2.adb | Status: Up-to-date | |
| Working revision: | 1.1 | Wed Jun 11 14:47:54 1997 |
| File: test_qm_icb3.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:59 1997 |
| File: test_sec_off.ada | Status: Up-to-date | |
| Working revision: | 1.2 | Fri Jul 4 13:54:59 1997 |
| File: test_sec_on.ada | Status: Up-to-date | |

Working revision: 1.2 Fri Jul 4 13:54:59 1997
File: test_strip.ada Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:54:59 1997
File: test_strip2.ada Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:54:59 1997
File: test_tables.ada Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:54:59 1997
File: test_timer.ada Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:54:59 1997
File: test_tmpsu_icb.ada Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:55:00 1997
File: test_windows_table.ada Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:55:00 1997
File: text_packets.adb Status: Up-to-date
Working revision: 1.1 Wed Jun 11 14:47:58 1997
File: text_packets.ads Status: Up-to-date
Working revision: 1.1 Wed Jun 11 14:47:58 1997
File: time_man.adb Status: Up-to-date
Working revision: 1.6 Mon Sep 8 14:39:25 1997
File: time_man.ads Status: Up-to-date
Working revision: 1.3 Mon Jul 14 15:20:15 1997
File: time_mand.adb Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:55:00 1997
File: tlink17.lcf Status: Up-to-date
Working revision: 1.7 Sat Jul 26 00:49:26 1997
File: tm_q.adb Status: Up-to-date
Working revision: 1.5 Mon Sep 8 14:40:03 1997
File: tm_q.ads Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:55:00 1997
File: tmpsu.adb Status: Up-to-date
Working revision: 1.4 Mon Sep 8 14:40:46 1997
File: tmpsu.ads Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:55:01 1997
File: tmq.adb Status: Up-to-date
Working revision: 1.3 Tue Jul 15 14:14:42 1997
File: tmq.ads Status: Up-to-date
Working revision: 1.2 Fri Jul 4 13:55:01 1997
File: types.ads Status: Up-to-date
Working revision: 1.1 Mon Sep 8 14:41:14 1997

## 4. EGSE PROGRAM FILES

cvs tag: icu_rel2
CVS status of the egse code in egse/

| | | | |
|---|---|---|---|
| File: Makefile | Working revision: | 1.11 | Fri Jul 25 20:53:34 1997 |
| File: Makefile.dpu_egse | Working revision: | 1.1 | Wed Dec 18 11:57:23 1996 |
| File: Makefile.icu_egse | Working revision: | 1.1 | Wed Dec 18 11:52:52 1996 |
| File: crc.c | Working revision: | 1.3 | Wed Jul 23 16:07:17 1997 |
| File: detector_sim.c | Working revision: | 1.5 | Wed Jul 23 16:07:18 1997 |
| File: egse_archive.c | Working revision: | 2.4 | Wed Jul 23 16:07:18 1997 |
| File: enpacket.c | Working revision: | 1.3 | Wed Jul 23 16:07:18 1997 |
| File: gen_bit_swap_table.c | Working revision: | 1.3 | Wed Sep 27 02:06:01 1995 |
| File: icu_commands.c | Working revision: | 3.14 | Wed Aug 6 21:20:49 1997 |
| File: idiot.h | Working revision: | 1.4 | Tue Jul 15 14:54:32 1997 |
| File: inter.h | Working revision: | 1.2 | Wed Mar 19 18:08:01 1997 |
| File: load.c | Working revision: | 1.14 | Fri Aug 1 10:59:36 1997 |
| File: memtest.c | Working revision: | 1.5 | Sun Jan 5 13:33:28 1997 |
| File: mic_windows.h | Working revision: | 1.2 | Wed Sep 27 01:51:08 1995 |
| File: packet.c | Working revision: | 4.9 | Wed Aug 6 21:21:55 1997 |
| File: packet.h | Working revision: | 4.1 | Tue Mar 25 10:53:07 1997 |
| File: packet_archive.c | Working revision: | 2.5 | Wed Jul 23 16:03:14 1997 |
| File: pcktize.h | Working revision: | 1.2 | Wed Jul 23 16:07:19 1997 |
| File: ptl_link.c | Working revision: | 3.3 | Wed Mar 19 18:12:02 1997 |
| File: ptl_link.h | Working revision: | 2.3 | Sun Jan 5 14:16:08 1997 |
| File: rbi_asm.c | Working revision: | 3.2 | Wed Mar 19 18:15:19 1997 |
| File: rt_image_server.c | Working revision: | 1.3 | Fri Oct 11 12:17:57 1996 |
| File: sc_driver.c | Working revision: | 3.3 | Wed Jul 23 16:03:47 1997 |
| File: sc_driver.h | Working revision: | 1.2 | Fri Oct 11 12:21:45 1996 |
| File: sc_handler.c | Working revision: | 2.3 | Wed Mar 19 18:16:53 1997 |
| File: sc_interactive.c | Working revision: | 2.1 | Thu Jun 20 21:20:34 1996 |
| File: sc_parse.c | Working revision: | 1.2 | Fri Oct 11 12:23:44 1996 |
| File: sc_socket_server.c | Working revision: | 1.3 | Fri Oct 11 12:04:48 1996 |
| File: sci_com.h | Working revision: | 1.2 | Sun Jan 5 14:37:31 1997 |
| File: socket_routines.c | Working revision: | 1.3 | Wed Sep 27 23:42:24 1995 |
| File: ssi_driver.c | Working revision: | 2.5 | Wed Jul 23 16:07:19 1997 |
| File: ssi_driver.h | Working revision: | 1.1 | Sun Jan 5 14:38:07 1997 |
| File: ssi_int.c | Working revision: | 2.8 | Wed Jul 23 16:04:32 1997 |
| File: ssi_pipe.h | Working revision: | 1.1 | Tue Sep 26 02:22:34 1995 |
| File: startup | Working revision: | 1.3 | Fri Jul 25 20:57:36 1997 |
| File: startup_icu | Working revision: | 1.2 | Thu Feb 6 13:07:29 1997 |
| File: startup_ssi | Working revision: | 1.2 | Thu Feb 6 13:05:26 1997 |
| File: system.h | Working revision: | 1.2 | Wed Jul 23 16:07:19 1997 |
| File: tm_sock.c | Working revision: | 4.3 | Wed Jul 23 16:05:10 1997 |
| File: warmboot.c | Working revision: | 1.2 | Wed Sep 27 23:22:45 1995 |
| File: xytable.c | Working revision: | 2.1 | Fri Apr 26 17:08:55 1996 |

## 5. HK MONITOR

| | |
|---|---|
| Makefile | rcs 1.1 |
| hk_cb.c | rcs 1.1 |
| hk_main.c | rcs 1.1 |
| omhkf.c | rcs 1.1 |
| omhkf_sem.c | rcs 1.1 |
| omhkf_log.c | rcs 1.1 |
| ring_buffer.c | rcs 1.1 |
| globals.h | rcs 1.1 |
| hk_cb.h | rcs 1.1 |
| hk_main.h | rcs 1.1 |
| omhkf_log.h | rcs 1.1 |
| ring_buffer.h | rcs 1.1 |
| omhkf_sem.h | rcs 1.1 |
| tm_packet.h | rcs 1.1 |
| tc_packet.h | rcs 1.1 |

## 6. HK MONITOR DAEMON

| | |
|---|---|
| omhkd.c | rcs 1.1 |
| Makefile | rcs 1.0 |

## 7. IDL IMAGE DISPLAY PROGRAM

| | |
|---|---|
| x_pro | 1.1 |
| convert_3byte_word.c | 1.1 |

## 8. DPU FILES

filenames:
dpu/development/eeprom/p0.cmd.0
dpu/development/eeprom/p5.cmd.0
dpu/development/eeprom/p7.cmd.0
dpu/development/eeprom/blue_p3.cmd.0

sizes (in bytes of the the files in the above order):
310130
50475
91565
16790

md5 checksums:
MD5 (p0.cmd.0) = e522547d69c3e46de5e43b6d851afb33
MD5 (p5.cmd.0) = 7538e3581a51c76c49f51bb5597b5d51
MD5 (p7.cmd.0) = d4d40c00cc3dfc518d286446bc675553
MD5 (blue_p3.cmd.0) = 4ba17177afa79173dff466198ff4cf8a

These files are stored in archives with names like:
dpu_rel3.zip for the loadable DPU code in packets
dpu_hex_rel3.zip for the hex file from which the binary packet files were created
dpu_rel3_src.zip for the source code

## 9. OS AND COMPILER VERSIONS

Operating system is Solaris 2.5.1
VxWorks 5.2
Tartan Compiler 5.1
GNU C Compiler gcc-2.7.2.1
GNU Make make-3.75
cvs-1.9
rcs-5.7
idl 5.0
xforms 0.86 including libforms.so.0.86 and Forms Designer 0.47

## 10. KNOWN PROBLEMS

10.1 *BASIC MODE*: tc_mode mode change telecommand does not produce an ack telemetry packet
10.2 *BASIC MODE*: the high 16 bits of the coarse time are initially FFh
10.3 *BASIC MODE*: the housekeeping dies 1hr 50min after switch on or reset
10.4 *BASIC MODE*: memory management commands can send unsuccessful execution instead of unsuccessful acceptance
10.5 *BASIC MODE*: ICU memory checksum does nothing
10.6 *BASIC MODE*: the time flags are not initially set to bad (both validation and synchronization flags should be set to 1)
10.7 Time synchronization is not yet fully tested
10.8 *OPERATIONAL MODE*: ICU memory checksum is not fully tested
10.9 A *DA_BLUE1_S_ALERT* is incorrectly issued by the DPU (reference NCR 48)

## 11. OMITTED FUNCTIONALITY

11.1 DPU memory dump is not fully functional
11.2 DPU memory checksum is not functional
11 3 DPU functionality is limited to dumping an image.