

The logo for United Medical Maintenance Services (UMMS) features the letters "UMMS" in a white, sans-serif font. To the left of the text is a bright white starburst or light flare. Below the text is a white, curved line that resembles a stylized underline or a swoosh.

**United Medical Maintenance Services**

**Engineering Publications**

**Examining PQ series error logs without ERP**

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## Examining PQ series error logs without ERP

From time to time I've ran into sites that only have the ERL program available to view error messages posted on the Q series scanner. These error messages are truncated after 15 characters and hide vital T/S information that a FE would need in diagnosing problems. Through some time consuming efforts I found a way and dissected these error log files stored on the Q series scanner. By using the unix command "CAT" these errors can view in its entirety.

The UNIX command "**ERP**" was compiled to work with a database comprised of several index files. These files are read and interpret by the "ERP" program and presented in a menu fashion for the FE to read. These files are located in the "**/usr/IQ/errlog**" directory.

**ERRBOAR.IDX** - Index to the board reporting the failure.

**ERRCODE.IDX** - Index to the actual code number of the failure.

**ERRGROU.IDX** - Index to the group program that reported the failure (e.g. SCAN, OPCON, ARCHIVER).

**ERRSTDY.IDX** - Index to the study number that error occurred on.

### NOTE !

**A minus one (-1) stamped on a study number indicates a failure in a non-study activity (e.g. Warmup, Manual Exposure etc..)**

Next, files **EX.AAAAAABAA** through **EX.AAAAAAZAA** and files **EX.AAAAAA0AA** through **EX.AAAAAA9AA** are the actual error verbiage for the error codes place in the **ERRCODE.IDX** file. Every time a new error is generated a new **EX.AAAAAA\_AA** file is created and logged with the error information. To view this information use the unix command "CAT" and perform the following.

Login: root <CR>

Password: <CR>

**IQ>cd \usr\IQ\errlog <CR>**

**IQ>cat EX.AAAAAABA <CR>**

### Part II

The error verbiage will be display along with other information useful in diagnosing problems on the Q series scanner.

Another valuable way of examining the error log is to run the program **ini\_elog**. When its asks you to "**recursively remove the log**" and answer **NO**. A file called **errlist.ini** will be created. By using the UNIX command "**tail**" you can view the entire error log file containing extended T/S information.

### Procedure:

Press <SHIFT> & <ENTER TEXT> key simultaneously. This will switch from the applications screen to the virtual console screen.

Press <Enter> key. A login prompt will appear.

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```
Login: root <CR>
Password: <ENTER> key
IQ>cd /usr/IQ/site/logs
IQ>ini_eolog
```

```
*****
Only regenerate a new error log if a new one can not
be created during scanning startup.
Use of this utility may destroy valuable information
in troubleshooting system problems
*****
```

```
Do you want to continue (y/n) ? Y
Listing of error logger to $DATA/errlog.lis in progress
Listing of Error Logger Complete!
*****
```

```
Destroying current error logger database and creating new one
*****
```

```
Recursively remove error log? N
-----
-----More Output-----
-----
```

```
IQ>Errlog(PID:642/1)/get_last_seq: opt=0 min=1 max=166
```

To view the error log file in its entirety, enter the following.

```
IQ>tail -400 errlist.ini
```

Example print out of the error log is followed on the next page.

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196: ECODE: 1017 TRACER: 24 NAME: GROUP: scan  
 BRD: XC+ SLOT#: 7 BRD2: SLOT#: 0 PROG: PC: 0  
 DATE: 21-Oct-11 TIME: 09:52:54 STUDY: 13658 SLICE: 14  
 High speed starter software error, No oil flow. Check for oil line kinks.

## SIF STATUS:

FUNS: 1 SIFS: 8001 SCNS: 3 CONT: 1 ROTR: 78 FLMT: 1  
 XRAY: 0 FLTR: 0 COMP: 2 COLL: 32 LASR: 0 SHUT: 1  
 SPOT: 1 BLIM: 1 KV: 2 MA: 0 HEAT: 1c FSPD: 109  
 FPOS: 2b5 CSPD: 0 CHOR: 5ff0 CVER: 310 TILT: 80 BACK: ffff

## GPU STATUS: NO ERROR

G4-0: ffff G4-1: 808 G4-2: 1088 G4-3: 100 G4-4: 15d G4-5: 62a8  
 G4-6: 147b G4-7: ff80 G4-8: d0f0 G4-9: 0 G4-A: 0 G4-C: 291  
 G4-D: 4051 G4-E: ff0a G4-F: 4ff0 G5-0: 1388 G8-0: 18b0 G8-1: 4b4  
 G8-2: 8603 G8-4: 5ff0 G8-5: 310 G8-7: 1080 G8-8: a000 G8-9: 1  
 G8-A: c81f G8-B: 6052 G9-0: ffff G9-1: 0 G9-2: 3039 G9-3: ffff  
 G9-4: ffff GPUS: 0 FMOD: 2 FSPD: e2 CMOD: 1 CSPD: 0

## SCAN TABLE:

CTYP: SCAN ACKQ: 16 MPM: 9 DMAF: 0 GPUF: 0 XSCF: 0  
 BAC0: 0 DPPC: c0f0 CNTW: 0 TIMW: 0 KV: 78 MA: fa  
 FSPD: 96 XTIM: 9d HTIM: 86f RSPD: ffff SPOT: 1 FLTR: 0  
 COMP: 2 COLL: 32 BLIM: 1 SAMP: 8 ANGL: ffff DELY: 0  
 CSPD: ffff ACIN: ffffffff POIN: ff60 IMIN: ffff INTG: 147b  
 FDET: ffff SOF: ffff EOF: 800 FAN: 2a8 #REV: 1 GAPA: 291  
 GAPB: 51 GAPL: 40 PACK: 1 INJ: 1 #REP: 0 TERM: 24

XSC+ STATUS: High speed starter software error, No oil flow. Check for oil line kinks. Replace starter or cables or tube.

ErrCat : 3f9 ErrCode : 36 Tracer1 : 0 Tracer2 : 0  
 XSCstate: 2244963f Slices : 950861 XTicks : 77 Heat : 28  
 KVRef : 120 KVAct : 1 MAREf : 250 MAAct : 0  
 DCrail I: 0 DCrail V: 578 OpenMA : 250.015 MA Gain : 3  
 Fil Ref : 4.418 Fil I : 4.412 Spot : 1 Inv Sel : 75  
 Inv1Temp: 24 Inv2Temp: 26 Inv3Temp: 25 Tube : 6  
 ACVab : 466 ACVac : 462 ACVbc : 464 HVGTest1: aa  
 HVGSys21: 0 HVGINvd : ff00 HVG Ana : 0 HVG AC : 0  
 HVG Fil : 0 HVGSys8 : fa HVGSysA9: 1 HVGTest2: 55  
 HVG Cmd : d HVG Stat: c38f Gen Type: 3 HSSCmd : f  
 HSSFlts : 100 HSSRtn : e HSS Out : cc Rotor Hz: 120  
 R Act I : 2.985 R I Ref : 3.000 R I Max : 27.000 Run DC : 0.139  
 P Act I : 3.034 P I Ref : 3.000 P I Max : 27.000 Phase DC: 0.025  
 R PWM : 0.110 R PWM t : 2.31e-04 R HEX I : 3.439 R Quad t: 2.08e-03  
 P PWM : 0.071 P PWM t : 2.31e-04 P HEX I : 3.470 P Quad t: 2.08e-03  
 DSPDiag : 0 DSPval1 : 0 DSPval2 : 0 A&C KV : 6 7  
 AC\_HZ : 60 BeamLim : 1 Coll : 6 Comp : 2

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