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IMPORTANT !

SOFTWARE MAINTENANCE REPORT

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PROBLEM: The new scheduler of ETOS V5B included a decision that overloads the queuing operation. The following one line patch improves the performance.

SOLUTION: This patch should be installed under stand-alone OS/8.

Figure F-44
Correcting ETOS V5B's Scheduler

```
.R FUTIL<CR>  
  
SET DEVICE SYS<CR>  
FILE ETOS<CR>  
ETOS. SV ssss-eeee 0163 (0115) S.SSS 13-MAR-80  
SET MODE SAVE<CR>  
5322/ 5330 5332<CR>  
WRITE<CR>  
EXIT<CR>
```

✓ 3-26-81 (TR)

| | | |
|-------------------------------------|-------------------------|------------------------------|
| <i>software product</i> ETOS V5B | <i>version</i> V5B | <i>patch?</i> yes no X |
| <i>component</i> ETOS.SV (RMON) | <i>sequence</i> 0003 | <i>required?</i> YES |

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PROBLEM: The ETOS V5B queuing scheduler does not remove a job properly from the table of tasks. This may result in a job being unable to get on the queue again.

SOLUTION: This patch should be installed under stand-alone OS/8.

Figure F-45
Correcting RMON's Removal of Jobs from Run Queue Error

```
.R FUTIL<CR>

SET DEVICE SYS<CR>
FILE ETOS<CR>
ETOS.SV ssss-eee 0163 (0115) S.SSS 13-MAR-80
SET MODE SAVE<CR>
2315/ 5323 5367<LF>
0000.02316\ 1222 <LF>
0000.02317\ 3036 <LF>
0000.02320\ 1034 1622<LF>
0000.02321\ 3436 7041<LF>
0000.02322\ 7340 1436<LF>
0000.02323\ 3434 7650<LF>
0000.02324\ 1622 5364<LF>
0000.02325\ 7700 5360<CR>
2360/ XXXX 7340<LF>
0000.02361\ XXXX 3434<LF>
0000.02362\ XXXX 1034<LF>
0000.02363\ XXXX 7410<LF>
0000.02364\ XXXX 3622<LF>
0000.02365\ XXXX 3436<LF>
0000.02366\ XXXX 7410<LF>
0000.02367\ XXXX 3434<LF>
0000.02370\ XXXX 5331<CR>
WRITE<CR>
EXIT<CR>
```

✓ 3-26-81 (776)

| | | | | |
|------------------|----------|-----------|-----|----|
| software product | version | patch? | yes | no |
| ETOS V5B | V5B | | X | |
| component | sequence | required? | | |
| ETOS.SV (RMON) | 0004 | | YES | |



TM

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PROBLEM: ACCNT.SV's ZERO option does not work on large accounts.

SOLUTION: The following patch should be installed in virtual OS/8 under ETOS.

Figure F-46
Correcting the ZERO Error in ACCNT.SV

```

.VS<CR>
!PRIV 4040<CR>
!WE 0<CR>
!BOOT<CR>

.R FUTIL<CR>

SET DEVICE SYS<CR>
FILE ACCNT<CR>
ACCNT.SV ssss-eeee 0020 (0016) S.SSS 26-OCT-79
SET MODE SAVE
01540/ 7041 7171<LF>
0000.01541\ 1132 <LF>
0000.01542\ 7500 7430<CR>
WRITE<CR>
EXIT<CR>

```

✓ 3-26-81 (782)

| | | | | |
|------------------|----------|-----------|-----|----|
| software product | version | patch? | yes | no |
| ETOS V5B | 5.54 | | X | |
| component | sequence | required? | | |
| ACCNT.SV | 0001 | | YES | |



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PROBLEM: Some ETOS sites with large numbers of accounts, whose OS8DISK.DSKs exists on a drive other than the system one, will have a corrupt record appear in the Master File Directory (MFD) as shown in Figure F-45.

Figure F-47
Evidence For a Corrupt Map Block

| | | | | |
|--------------|--------|----------|---------|--------------|
| 02,17 AJG | <0077> | 0001 | 1 | 12 FEB. '81 |
| 02,20 ENT | <0077> | 0001 | 1 | 12 FEB. '81 |
| 02,21 ABC | <0077> | 25744561 | 5753201 | 25 FEB. '81 |
| 02,22 SHACK | <0077> | 0001 | 1 | 12 FEB. '81 |
| 02,23 BOSTON | <0077> | 0001 | 1 | 12 FEB. '81 |
| 02,24 JGR | <0077> | 0001 | 1 | 12 FEB. ' 81 |

The Account Program crashes the ETOS operation if the corrupt account's User File Directory is accessed or even printed.

The user whose account is corrupt cannot LOGIN to ETOS without crashing the system.

SOLUTION: The corrupt map block must be replaced with valid data. This requires two steps:

1. To determine the location of the corrupt map block.
2. Change the block to valid data.

To determine the location of the bad map block type the following instructions while LOGged INTO a PRIVileged account under ETOS.

| | | |
|-------------------------------------|-------------------------|------------------------------|
| <i>software product</i> ETOS V5B | <i>version</i> V5B | <i>patch?</i> yes no X |
| <i>component</i> ETOS (RMON) | <i>sequence</i> 0005 | <i>required?</i> NO |

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Figure F-48
Gathering the Data to Locate the Bad Map Block

```

.^VS<CR>
!PRIV 4040<CR>
!LOOKUP 3=[0,2]IMAGE.RKA<CR>
!WE 3<CR>
!LOOKUP 4=[0,2]IMAGE.RKB<CR>
!WE 4<CR>
!BOOT<CR>

.R FUTIL<CR>

SET DEVICE CHN3<CR>
DUMP PACKED 1200<CR>

1200.00000:  APASSWORD??5??A
1200.00020:  BLIBRARY??5=??A
1200.00040:  COPERATOR??5>??A
1200.00060:  DUSER ?*J5R??A
1200.00100:  EUSER ?*J5P??A
1200.00120:  FUSER ?*J5N??A
1200.00140:  GUSER?I+53??A
1200.00160:  ??
1200.00200:  ??
1200.00220:  ??
1200.00240:  ??
1200.00260:  ??
1200.00300:  ??
1200.00320:  ??
1200.00340:  ??
1200.00360:  ??

DUMP OCTAL 1200<CR>

```

| | | |
|------------------------------|------------------|-----------------------|
| software product ETOS V5B | version V5B | patch? yes no X |
| component ETOS (RMON) | sequence 0005 | required? NO |



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| | | | | | | | | |
|-------------|------|------|------|------|------|------|------|------|
| 1200.00000: | 0001 | 2001 | 2323 | 2717 | 2204 | 7777 | 0000 | 6577 |
| 1200.00010: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00020: | 0002 | 1411 | 0222 | 0122 | 3100 | 7777 | 0000 | 6575 |
| 1200.00030: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00040: | 0003 | 1720 | 0522 | 0124 | 1722 | 7777 | 0000 | 6576 |
| 1200.00050: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00060: | 0004 | 2523 | 0522 | 0000 | 0000 | 4077 | 5212 | 6522 |
| 1200.00070: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00100: | 0005 | 2523 | 0522 | 0000 | 0000 | 4077 | 5212 | 6520 |
| 1200.00110: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00120: | 0006 | 2523 | 0522 | 0000 | 0000 | 4077 | 5212 | 6516 |
| 1200.00130: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00140: | 0007 | 2523 | 0522 | 0000 | 0000 | 0077 | 1153 | 6563 |
| 1200.00150: | 7777 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00160: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00170: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00200: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00210: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00220: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00230: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00240: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00250: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00260: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00270: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00300: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00310: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00320: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00330: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00340: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00350: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00360: | 0000 | 7777 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| 1200.00370: | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |

| | | | | |
|------------------|----------|-----------|-----|----|
| software product | version | patch? | yes | no |
| ETOS V5B | V5B | | | X |
| component | sequence | required? | | |
| ETOS (RMON) | 0005 | | NO | |



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Let us assume that the account [0,5] with password of 'USER', listed in the .100 line is the one that has the bad map block.

The 'O' dump of Figure 4-48 gives the location. Figure F-49 lists the pertinent data.

Figure F-49
Data on a Specific Account in the MFD

1200.00100: 0005 2523 0522 0000 0000 4077 5212 6520
1200.00110: 7777 0001 0000 0000 0000 0000 0000 0000

The 1200.00107 locations, containing 6520, and the 1200.00110 location, containing 7777 give the map block location.

To determine the actual locations put the two octal word together as 77776520 (the 107 location is low order and the 110 location is the high order). Then take the complement (in octal): 00001257. Finally, add 1: 00001260. The map block is located in block 1260.

While still in FUTIL as in Figure F-48, type "DUMP 0 1260", or whatever value you get.

In the output you will see the 2574, 4561 of Figure F-47 appearing. The entire block will be filled with other values.

What should appear, if the block was 1260, is shown in Figure F-50.

| | | | | |
|------------------|----------|-----------|-----|----|
| software product | version | patch? | yes | no |
| ETOS V5B | V5B | | | X |
| component | sequence | required? | | |
| ETOS (RMON) | 0005 | | NO | |



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Figure F-50
A Valid Map Block for an Account

| | | | | | | | |
|-------------|------|------|------|------|------|------|------|
| 1260.00000: | 1261 | 0000 | 0001 | 7777 | 7777 | 7777 | 7777 |
| 1260.00010: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00020: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00030: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00040: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00050: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00060: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00070: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00100: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00110: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00120: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00130: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00140: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00150: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00160: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00170: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00200: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00210: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00220: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00230: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00240: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00250: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00260: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00270: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00300: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00310: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00320: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00330: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00340: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00350: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00360: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |
| 1260.00370: | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 | 7777 |

| | | |
|------------------------------|------------------|-----------------------|
| software product ETOS V5B | version V5B | patch? yes no X |
| component ETOS (RMCN) | sequence 0005 | required? NO |

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This can be checked by dumping the next sequential block as shown in Figure F-51.

Figure F-51
An Empty User File Directory

DUMP PACKED 1261<CR>

```
1261.00000: ??
1261.00020: ??
1261.00040: ??
1261.00060: ??
1261.00100: ??
1261.00120: ??
1261.00140: ??
1261.00160: ??
1261.00200: ??
1261.00220: ??
1261.00240: ??
1261.00260: ??
1261.00300: ??
1261.00320: ??
1261.00340: ??
1261.00360: ??
```

Step 2: to change the map block to the correct value.

To do this you will need to use FUTIL as shown in Figure F-52.

| | | |
|-------------------------------------|-------------------------|------------------------------|
| <i>software product</i> ETOS V5B | <i>version</i> V5B | <i>patch?</i> yes no X |
| <i>component</i> ETOS (RMON) | <i>sequence</i> 0005 | <i>required?</i> NO |

ETOS V5B
Technical Summary Letter #7

March 16, 1981

Dear ETOS V5B User:

Enclosures:

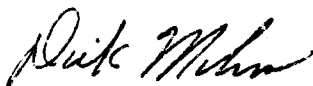
Enclosed are three patches to correct problems with the ETOS Resident Monitor and the Account Program.

In addition, some users have reported map block corruption. The evidence for this and the correction method are discussed in an enclosed SMR.

Status Report:

A fraction of V5B sites report difficulties running ETOS. The major symptom is a user's terminal loses contact with its virtual machine. The terminal usually will echo what is typed but there is no response. This behavior is passed from user to user ultimately leaving only the null job running. The finding of this bug and its correction has the highest priority as this time.

Sincerely,



Richard J. Mihm
PDP-8 Product Manager

RJM:las

D-14



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Figure F-52
Correcting a Bad Map Block

```

1260.0/      XXXX  1261<LF>
1260.00001   XXXX  0000<LF>
1260.00002   XXXX  0001<LF>
1260.00003   XXXX  0000<LF>
1260.00004   XXXX  7777<LF>
              "
              "   continue putting in 7777 at
              "   each location until
              "
1260.00377   XXXX  7777<CR>

WRITE<CR>
EXIT<CR>

```

The only change for your site is the value of the number you put in. Only the 1260.0 and 1261 entered would change. This is equal to the value of your bad map block and your bad map block plus one.

The map block is repaired.

In the event you have more than sixteen accounts in the MFD and the bad map block is not among the first sixteen, you will need to locate the other segments of the MFD by looking at its map block in block 1201. Use the procedure of Figure F-50 using "DUMP OCTAL 1201". Then dump the various blocks of the MFD like was done in Figure F-48, e.g., "DUMP PACKED 4615".

In the event the blocks go onto the "B" side of the disk, you will need to use channel 4 as the FUTIL device.

| | | | | |
|------------------|----------|-----------|-----|----|
| software product | version | patch? | yes | no |
| ETOS V5B | V5B | | | X |
| component | sequence | required? | | |
| ETOS (RMON) | 0005 | | NO | |

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|-------------|---------------------------|--------------------------------|---------------------------------|
| 12/1/79 | | | New Version of Documentation |
| 9/30/80 | 3-25 thru 3-28 | 3-25 thru 3-28 | %VM HLT Correc- tion |
| | 6-13 thru 6-14 | 6-13 thru 6-14 | WAIT Bits |