**Mentec**

**Computers & Communications**

## Cover Letter for RSTS/E V10.1A Year 2000 Update

## AV-RK36A-TE

### Contents of This Kit

This kit is a maintenance update for RSTS/E Version 10.1, and contains corrections for Year 2000 Readiness. This kit should be installed after the normal installation of RSTS/E Version 10.1 using the INSTAL command procedure included on the update.

### Table 1:  Modified Images

| File | Problem |
|------|---------|
| ERROR$:ERRDIS.TSK | Correct handling of dates for error reporting |
| ERROR$:ERRDET.TSK | Correct handling for full reports regarding dates. |
| EDT$:EDT.TSK | Correct problem with DATE command |
| EDT$:EDT.LIB | Correct problem with DATE command |
| SYSGEN$:MTU.OBJ | Correct problem with ANSI label processing |
| [0,1]RT11.RTS | Include additional .DATE4 handler |
| [1,2]LINK.SAV | Correct map date output |
| [1,2]PIP.SAV | Correct ANSI/FLX tape label handling for directories |
| [1,2]LIBR.SAV | Correct listing to correctly display dates |
| [1,2]SYSMAC.SML | Include defintiion of new .DATE4 handler |

### Corrections

The following sections describe the corrections incorporated into RSTS/E V10.1A Year 2000 Update.

### ANSI Tape label processing

Previously, RSTS/E did not correctly create ANSI labels which contained dates beyond the year 2000. This has been corrected within the monitor, and PIP.SAV

## Error Reporting

Previously, the error log reporting subsystem could not process dates beyond the year 2000. This has been corrected.

## RT-11 Date handling

After the year 2004, the RT-11 date begins to use the "epoch" bits, which must be merged in with the year. Previously, only PIP was updated to be able to handle these additional bits. Since most programs are unaware of the "epoch" bits, the original .DATE system call has been left as is, and a new .DATE4 system call has been defined. This system call will return the full date word, while the original .DATE system call will not return bits 14 and 15, which are the "epoch" bits. Those programs which use the .DATE system call will rollback to 1-Jan-1972 on 1-Jan-2005.

All supplied RT-11 programs have been modified to use the new .DATE4 system call, with the exception of the RT-11 MACRO.SAV assembler, and CREF.SAV facility, which continue to use the original .DATE function call and so after 1-Jan-2005 will show an incorrect date in their listing files. To produce MACRO listings which have the correct date shown, the RSX-11 MAC.TSK facility can be used after 01-Jan-2005.

## EDT editor

The EDT DATE command did not correctly display dates after 1-Jan-2000, and always displayed the date as being in the 1900's. This problem has been corrected.

## Installation

The following steps should be used to install this update:

1. Perform a standard full installation, and don't remove the sysgen components when completed.

2. Restore the update from the tape distribution media --

   $ RESTORE/NOACCOUNT  MU0:RSTS.BCK PATCH$:

3. Install the update using the installation command procedure --

   $ @PATCH$:INSTAL

4. When complete, generate a new monitor, using the RSTS/E INSTAL procedure --

   $ @[0,1]INSTAL MONITOR

   and specify that SY: is the installation media.

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