IAS/RSX-11 ODT Reference Manual Supplement

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This supplement to the *IAS/RSX-11 ODT Reference Manual* identifies specific sections of the manual that do not apply when using ODT in the context of the Professional Developer's Tool Kit.

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IAS/RSX-11 ODT Reference Manual Supplement

This manual identifies those areas of the IAS/RSX-11 ODT Reference Manual that do not apply in the P/OS operating environment.

Although P/OS is based on RSX-11M-PLUS, it does not include all of the RSX system features. The supplement describes specific sections of the *IAS/RSX-11 ODT Reference Manual* that should be ignored in the P/OS environment and identifies the specific RSX system feature not supported.

1.0 I/D Space and Supervisor Mode

P/OS does not include RSX support for instruction and data space (I/D space) capabilities. In addition, P/OS does not include supervisor mode registers and, therefore, does not include supervisor-mode libraries.

The following sections in the *IAS/RSX-11 ODT Reference Manual* do not apply when using ODT in a P/OS environment:

□ Section 1.2.4 Linking to Enable RSX-11M-PLUS Features
 □ Section 1.2.4.1 Enabling Instruction and Data Space
 □ Section 1.2.4.2 Enabling Supervisor-Mode Library Debugging

2.0 Interrupting and Resuming a Debugging Session Using CTRL/C

P/OS does not support the CTRL/C sequence in the terminal driver. The Professional keyboard replaces this function with the INTERRUPT/DO function keys. The ability to interrupt or resume a debugging session using CTRL/C is not pos-

sible in the P/OS environment. Therefore, the following sections in the IAS/RSX-11 ODT Reference Manual do not apply to P/OS:

Section 1.5 Interrupting a Debugging Session
Section 1.5.1 Resuming a Debugging Session (RSX-11M-PLUS)
Section 1.5.2 Resuming a Debugging Session (IAS)—(P/OS is also not an IAS system.)

3.0 Commands Not Supported

Because P/OS does not include support for I/D space, the following commands listed in Table 2-3 do not apply in the P/OS environment:

The "I" command (Access Data Space)
The "I" command (Access Instruction Space)
The "U" command (sets the current mode of ODT to user mode)
The "Z" command (sets the current mode of ODT to supervisor mode)

4.0 Setting Breakpoints That Refer to I/D Space

Since P/OS does not support I/D space, breakpoints never refer to I/D space. Therefore, the last two (shaded) paragraphs in Section 3.1.1 do not apply.

5.0 Redirecting ODT Output

Note: The information on LUN assignments in Section 6.1.4 of the IAS/RSX-11 ODT Reference Manual does not apply directly to the P/OS environment.

This section describes how to direct ODT output to the printer port on the Professional, so you can use a debugging terminal connected to that port. You can use any of the VT100 or LA series terminals running at 9600 baud for that purpose. Note that when connecting a debugging terminal to the printer port, you should use a console cable, not a printer cable.

The device control LUN registers \$0D and \$1D contain the logical unit numbers of the ODT output devices. ODT assigns both LUNs to the Professional video terminal (video monitor/keyboard, device TT1:). This means all output goes to the video display by default.

To debug with a debugging terminal instead of the Professional video terminal, you must change the value in the \$0D register to reflect a LUN assignment of the printer port (device TT2:).

To make a LUN assignment to the printer port,

 At task build time, include the following command line in the command file:

ASG = TT2:n

where n is a decimal number.

This ASG option assigns the LUN (n) to the printer port.

2 After you start your program, open register \$0D and deposit the LUN number (n) of the printer port. Use the following ODT command to do this:

\$0D/n

where n is the octal equivalent of the decimal number used in the ASG statement above.

ODT will then prompt at the debugging terminal.

6.0 PDS Command Line

Since P/OS is not an IAS system, the PDS command line is invalid for P/OS. Therefore, Section 8.1.3 does not apply.

7.0 The Trace Debugging Program

P/OS does not support Trace. Therefore, Sections 8.2 through 8.2.2 do not apply in the P/OS environment.

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