

# **OS/32 R06.2**

## **SOFTWARE SOURCE PACKAGE**

### **REFERENCE DOCUMENT**

**Consists of Source Packaging Information For:**

**Magnetic Tape (800 BPI) Package**  
**Disk (10Mb) Package**  
**Magnetic Tape (1600 BPI) Package**  
**Disk (16Mb) Package**

**04-082M39R13**  
**04-082M69R13**  
**04-082M79R13**  
**04-082MD9R13**

# **PERKIN-ELMER**

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This OS/32 R06-02 Source Package is a licensed product. Rights and restrictions of licensing are described in a CSS called "INFORM.CSS" in this package.

## 1 PRODUCT IDENTIFICATION

Product Title: OS/32 R06-02 Software  
Source Package

Sales Order Number: S80-016

Perkin-Elmer Part Number: 04-082

## 2 GENERAL INFORMATION

This document describes the OS/32 R06-02 source package, unpackaging procedures, and the program components. It is assumed that the user already has the OS/32 R06-02 object package (Part # S80-016).

It is advisable to use the latest revision of the utilities, as supplied in the OS/32 R06-02 object package.

The revision level of each of the component programs is indicated in this document.

## 3 AVAILABLE PACKAGES

The OS/32 R06-02 Software Source Packages currently available are:

Order Number	Part Number	Package Description
S80-016-AEB	04-082M39R13	OS/32 R06-02 Software Source Package Functional Programs (9-track, 800 BPI magnetic tape), and Reference Document
S80-016-AEC	04-082M79R13	OS/32 R06-02 Software Source Package Functional Programs (9-track, 1600 BPI magnetic tape), and Reference Document
S80-016-AEE	04-082M69R13	OS/32 R06-02 Software Source Package Functional Programs (three 5Mb discs), and Reference Document
S80-016-AEP	04-082MD9R13	OS/32 R06-02 Software Source Package Functional Programs (16Mb Disc) and Reference Document

#### 4 PROGRAM PACKAGE

The OS/32 R06-02 Source Program Package, 04-082M09R13, consists of the following items:

File Name	Program Component	Part Number
INFORM.CSS	Restricted Rights Disclosure	
CMDB.MAC	Display & Bulk Command Executors	07-112M09R06-02
CMEX.MAC	Command Executors	07-113M09R06-02
CMSP.MAC	Console and CSS Manager	07-111M09R06-02
CMON.MAC	Console Monitor	07-153M09R06-02
CDVR.MAC	Console Driver	07-152M09R06-02
CMIR.MAC	Command Internal Reader	07-317M09R06-02
DUMP.MAC	OS Panic Dump	07-058M09R06-02
ERRC.MAC	Error Recording	07-211M09R06-02
EXAC.MAC	Accounting Facility	07-213M09R06-02
EXEC.MAC	System Parameter Tables	07-071M09R06-02
EXIN.MAC	Interrupt Handler	07-100M09R06-02
EXIO.MAC	I/O Supervisor	07-101M09R06-02
EXMY.MAC	Memory Supervisor	07-105M09R06-02
EXSP.MAC	Supervisor Services	07-103M09R06-02
EXTI.MAC	Timer Manager	07-102M09R06-02
EXTM.MAC	Task Manager	07-104M09R06-02
EXLD.MAC	Loader	07-155M09R06-02
EXSV.MAC	Supervisor Calls	07-154M09R06-02
FLTP.MAC	Floating Point Traps	07-075M09R06-02
INTC.MAC	Intercept Manager	07-271M09R06-02
INTD.MAC	Intercept Manager (Dummy)	07-271M09R06-02
MCHK.MAC	Memory Diagnostic support	07-198M09R06-02
FMCO.MAC	Contiguous File Handler	07-108M09R06-02

FMS7.MAC	File Manager Mainline Routines	07-106M09R06-02
FMIN.MAC	Indexed File Handler	07-110M09R06-02
FMNB.MAC	Non-buffered Indexed File Handler	07-316M09R06-02
FMUT.MAC	File Manager Utility Routines	07-107M09R06-02
UBOT.MAC	Dummy End	07-067M09R06-02
SYSGEN.MAC	OS/32 Source SYSGEN Parameters	07-201M09R06-02

#### I/O Drivers Source

TYKP.MAC	Teletype Keyboard/Printer Driver	07-060F00R09-01 *
BIOC.MAC	BIOC CRT and Point-to-Point Driver	07-315F00R09-01 *
CRT.MAC	Local CRT Driver	07-060F83R09-01 *
MHD.MAC	Moving Head Disc Driver	07-060F60R09-01 *
MSM.MAC	Mass Storage Media Driver	07-060F94R09-01 *
DCM.MAC	Channel Manager Driver	07-060F103R09-01 *
FLPY.MAC	Floppy Disc Driver	07-060F97R09-01 *
MAGN.MAC	Magnetic Tape Driver	07-060F101R09-01 *
CASS.MAC	Intertape Cassette Driver	07-060F50R09-01 *
PTRP.MAC	High Speed Paper Tape Reader Punch Driver	07-060F20R09-01 *
TYRP.MAC	Teletype Reader Punch Driver	07-060F20R09-01 *
CARD.MAC	Card Reader Driver	07-060F40R09-01 *
CDRP.MAC	Card Reader Punch Driver	07-060F45R09-01 *
LPTR.MAC	Line Printer Driver	07-060F30R09-01 *
L8.MAC	Eight Line Interrupt Module Driver (TGD)	07-060F04R09-01 *

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\* The OS/32 Driver Module Library is provided as separate files. File names for each source component are listed. Each file contains an individual driver and the associated DCB's.

DMUX.MAC	Digital Multiplexor Driver	07-060F93R09-01 *
RTAS.MAC	Real Time Analog System Driver	07-060F82R09-01 *
AIDV.MAC	Analog Input Controller Driver	07-083F01R09-01 *
AODV.MAC	Analog Output Controller Driver	07-083F03R09-01 *
DIOV.MAC	Digital Input Output Driver	07-083F05R09-01 *
SUBS.MAC	General Purpose Driver Subroutines	07-060F99R09-01
VFCS.MAC	VFC Subroutines	07-060F102R09-01 *

Basic Data Communications Source

ITAM.MAC	Support Module	07-220F01R02-01
IFM1.MAC	File Manager - Full ITFM System	07-220F02R02-01
IFM0.MAC	File Manager - Null ITFM System	07-220F03R02-01
HASY.MAC	IOH for Asynchronous SVC1	07-220F04R02-01
HSVF.MAC	IOH for Asynchronous SVC15	07-220F05R02-01
HSUP.MAC	IOH for Multipoint SVC1	07-220F21R02-01
MSUP.MAC	Editing CRT Term Manager Kernel	07-220F20R02-01
TOWL.MAC	Asynchronous OWL-1200 Table of Pointers	07-220F06R02-01
TADO.MAC	Asynchronous DMA I/O Subsystem Table of Pointers	07-220F07R02-01
TBDE.MAC	EBCDIC DMA I/O Subsystem Table of Pointers	07-220F08R02-01
TBEB.MAC	EBCDIC Table of Pointers	07-220F09R02-01
TBAO.MAC	ASCII Odd Parity Table of Pointers	07-220F10R02-01

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\* The OS/32 Driver Module Library is provided as separate files. File names for each source component are listed. Each file contains an individual driver and the associated DCB's.

TBAE.MAC	ASCII Even Parity Table of Pointers	07-220F11R02-01
XBDE.MAC	DMA I/O Subsystem Translation Table	07-220F12R02-01
XBEB.MAC	EBCDIC Translation Table	07-220F13R02-01
XBAE.MAC	ASCII Even Parity Translation Table	07-220F14R02-01
XBAO.MAC	ASCII Odd Parity Translation Table	07-220F15R02-01
DDSP.MAC	DMA I/O Subsystem EBCDIC Bisynchronous Handler	07-220F16R02-01
DBSC.MAC	Bisynchronous Driver Special Character Handler	07-220F17R02-01
DOWL.MAC	Asynchronous PET-1200 Translate Tables	07-220F18R02-01
DADO.MAC	PET-1200 DMA I/O Subsystem Translate Tables	07-220F19R02-01
D144.MAC	Asynchronous Communications Line SVC15 DCB	07-221F01R02-01
D145.MAC	Remote Line Printer	07-221F12R02-01
D146.MAC	Sigma 10 Terminal DCB	07-221F13R02-01
D147.MAC	Conversational CRT/TTY DCB	07-221F02R02-01
D156.MAC	PET-1200 Editing CRT DCB	07-221F03R02-01
D157.MAC	Point-to-Point Model 1250 DCB	07-221F17R02-01
D158.MAC	Multipoint Model 1250 DCB	07-221F15R02-01
D160.MAC	Bisynchronous Communications Line SVC15 on 201 DSA DCB	07-221F04R02-01
D168.MAC	Bisynchronous Communications Line SVC15 on QSA DCB	07-221F05R02-01
D192.MAC	DMA I/O Subsystem DCB Line Driver	07-221F06R02-01
DASY.MAC	Asynchronous Line Driver	07-221F08R02-01
MASY.MAC	Conversational CRT/TTY Terminal Manager	07-221F09R02-01



PPSM.MAC	Point-to-Point CRT Service Module	07-221F20R02-01
MMSM.MAC	Multipoint CRT Service Module	07-221F14R02-01
DCSY.MAC	Bisynchronous Line Driver	07-221F07R02-01
DIOS.MAC	DMA I/O Subsystem Handler and Driver	07-221F11R02-01
EGU.MAC	Environment Generation Utility	03-245M09R00-00

#### Miscellaneous Source

ACCTF.FTN	Accounting Report Utility FORTRAN Library	03-241F01R00-01
ACCTI.FTN	Accounting Report Utility FORTRAN Common Definitions	03-241F02R00-01
ACCTC.MAC	Accounting Report Utility CAL Library	03-241F03R00-01
AFDCP.MAC	Accounting Facility Data Collection Program (DMY MTM)	03-244M09R00-02
CUPMT.MAC	OS/32 Configuration Utility Program	03-072M09R06-02
DUMPRINT.MAC	OS/32 Dump Print Program CAL Library	03-095M09R06-02

## 5 UNPACKAGING AND INSTALLATION

### 5.1 Disc (10 and 16Mb)

The 10Mb disc package consists of three 5Mb volumes, labelled 'MT6C', 'MT6D', and 'MT6E', while the 16Mb disc package has one volume labelled 'MT6C'. The software files on these disc packages are immediately usable and does not require the use of an unpackaging procedure.

### 5.2 Magnetic Tape (800 and 1600 BPI)

The files are supplied on a magnetic tape in OS/32 Backup Utility format. The unpackaging procedure involves copying the files from tape to a user disc utilizing OS/32 Backup (see Chapter 5 of the OS/32 System Support Utilities Reference Manual, Publication Number 48-031 R01).

After selecting a disc onto which the files are to be copied, review the disc filenames to ensure that they do not conflict with the filenames in this package as listed in Section 4 of this document. Rename any conflicting filenames to some other appropriate name.

#### NOTE

The files in the supplied OS/32 Source 6.2 package must not be renamed because the OS 6.2 CSS source files require specific filenames as listed in the Program Package section.

To unpackage the files from the system console, mount the supplied OS 6.2 Source tape and run OS/32 BACKUP Utility via the following commands:

```
LOAD BACKUP
TASK BACKUP
START ,IN=dev1:,OUT=dev2:,LIST=dev3:,VERIFY
```

where:

dev1 is the device name for the magnetic tape drive  
dev2 is the device name for the disc  
dev3 is the device name for the printer or list device

Note that all device names have the standard OS/32 format. They are dependent on the particular configuration of the user system and can be determined by entering the OS/32 command 'DISPLAY DEVICES' at the console or terminal.

#### NOTE

The procedure for running BACKUP from a Multi-Terminal Monitor (MTM) terminal is identical to the one described above for the system console, with the exception that the user must sign on to an account having bare disc access and the task account privilege enabled. Account 255 will always have these privileges.

### 5.3 Post-Installation Procedures

Before using the installed software, it is recommended that the following procedures be executed:

- o Using OS/32 BACKUP Utility, copy the software files for archiving.
- o After marking the disc on and setting the appropriate volume, enter the following command substitution system (CSS) call:

```
INFORM [list-device:]
```

Information regarding this product will then be displayed on the system console by default, or to an optional device, list-device specified in the CSS call.

APPENDIX A

KNOWN PROBLEMS/AVOIDANCE PROCEDURES

As of April 20, 1983, there are no known problems.

# A D D E N D U M

## PROBLEM

A 152 Crash may occur when canceling MTM or the SPOOLER on systems using data communications devices.

## SOLUTION

In routines WAIT and WAITRSI in the ITFM.M01 module, the wrong register is being used in an SBT instruction.

## Source Fix

Using the Source Updater Utility, enter the following:

```
MOD IFM12640
      SBT      R15,TCB.STAT(R9)
MOD IFM12980
      SBT      R15,TCB.STAT(R9)
ENDUP
```

## Object Fix

Using the PATCH Utility, enter the following commands:

```
OBJ  ITBSYS.LIB,NEWITBS.LIB,LIB
GET  ITFM.M01,COP
EXA  70E,2
      70E:I 75C9 003C
MOD  70E,75F9

EXA  76C,2
      76C:I 75C9 003C
MOD  76C,75F9

SAVE COPY,T
END
```