

Installation of POS Version B.1
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4 December, 1980
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This document gives a short description of how to bring up version B.1 of POS on your PERQ.

- 1) Run PLX. This is done by typing PLX to the PERQ command interpreter.
- 2) Place the PERQ B.1 Distribution Floppy into the floppy drive.
- 3) Retrieve the two command files Bin.Cmd and Src.Cmd from this floppy.
- 4) Execute both of these command files.
- 5) Exit PLX.
- 6) Create a B.1 boot file. This is done by typing System.1 to the PERQ command interpreter. This will create a file on the disk named System.1.Boot.
- 7) It is now time to write the boot file on the hard disk. This is done using the program WriteBoot. To run this program type WriteBoot to the command interpreter. Answer the questions from WriteBoot in the following manner:

Do you want to write a boot file.... Answer YES

Write boot file to hard disk.... Answer YES

Boot microcode.... Type <cr>

Are you writing a system.... Answer Yes

System version number.... Type 1

Interpreter microcode.... Type <cr>

- 8) You have now written the boot file with the new system. If you press the boot button, version B.1 of POS should start. If the system does not run, insert the A.15 boot floppy and boot the machine. After POS A.15 is running repeat the above procedure. If B.1 still will not boot, contact the technical support person at Three Rivers.

User Interface Changes in System B.1

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4 December, 1980

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This document gives a list of the changes to the POS User Interface that have been made in version B.1.

The only user visible change to the POS User Interface is that it now remembers the name of the last file used in some system commands. This means that the file name used in the last Edit, Compile or Link is remembered. This allows the user to run any of these processors on a single file without retyping the file name. If the user typed "Edit Foo" then the editor would try to edit the file Foo.Pas. If the file were a Pascal program then the user may type "Compile" to compile Foo. He could then type "Link" to create Foo.Run.

A typical session might look like this:

```
:Edit Foo      { Edit the file Foo.Pas }
:Comp          { Compile Foo.Pas }
:Link         { Link Foo to create Foo.Run }
:Foo          { Run the program and find the bugs }
:Edit         { Edit Foo again }
:Comp /Symbol:12 { Compile Foo using 12 symbol table blocks }
:Foo          { Run the program again }
```

Quick List of Software Changes in System B.1

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4 December, 1980

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Many modules and utilities were changed between System A.15 and System B.1. This document provides a list of distribution floppies that were changed and a list of the source files that were changed (for any source that changed you may assume that the corresponding Seg or Bin file also changed). Along with each source is a brief description of what changed or a reference to a document which describes the changes.

Distribution floppies that changed

System B.1 Distribution
 Utility Program Source Distribution
 Utility Program Binary Distribution
 Pascal Compiler Distribution
 Microcode Support Distribution
 Demonstration Program Distribution
 Test Program Distribution

System B.1 Boot Floppy
 Diskup Boot Floppy
 PLX Boot Floppy

Sources that changed

OS.SOURCE - OPERATING SYSTEM SOURCES

<u>file name</u>	<u>version</u>	<u>file name on floppy</u>	<u>short description.</u>
READER.PAS	0.0	READER.PAS	Stream package input conversion routines. Tab and form-feed characters are now treated as separators in the same way as space.
STREAM.PAS	1.1	STREAM.PAS	Stream package base routines - Get and Put. See the document "System B.1 Stream Package" for a description of the changes to the stream package.

SYSTEM.PAS B.1 SYSTEM.PAS
 Operating system main program. See the document
 "User Interface Changes in System B.1" for a
 description of the changes to this module.

FILESYSTEM.PAS 2.1 FILESY.PAS
 File system. Fix various bugs.

IO.PAS 3.2 IO.PAS
 Input/output manager. See the document "New PERQ
 Tablet and Cursor Interface" for a description of
 the changes to the input/output manager.

IO.PROC.PAS - IOPROC.PAS
 Input/output manager procedures and functions.

IO.INIT.PAS - IOINIT.PAS
 Input/output manager initialization.

OS.MISCELLANEOUS - OPERATING SYSTEM SPECIAL FILES

file name -----	version	file name on floppy short description. -----
PERQ.FILES	-	PERQ.FIL The list of files that make up System B.1.

UTILITY.SOURCE - UTILITIES SOURCES

file name -----	version	file name on floppy short description. -----
FILEUTIL.PAS	1.0	FILEUT.PAS File utility. Various minor corrections to FTP. Provide a way of writing directory listings to a file. Use the stream package for the Copy command when one or both of the file names contains a colon--this allows transfers to and from Console:, RS:, and RSX:.
FTPMAIN.PAS	1.0	FTPMAI.PAS File-utility file transfer module.
FTP.PAS	1.0	FTP.PAS File transfer.
PLX.PAS	1.1	PLX.PAS RT-11 floppy disk utility. See the document "Changes to PLX in System B.1".

PLXUTIL.PAS 1.1 PLXUTI.PAS
PLX utility routines.

PRINT.PAS 1.1 PRINT.PAS
Print a text file on an HP 7310A printer or
through the TNW GPIB to RS232 converter. New
utility program in System B.1--replaces the old
Print and HPrint.

CHATTER.PAS 0.3 CHATTR.PAS
RS232 dumb terminal program. Use windows, pro-
vide the ability to send and receive Perq files,
and provide a command to set the baud rate.

DISKUP.PAS 1.1 DISKUP.PAS
Disk error fixer. New utility program in System
B.1--replaces DiskUp and InitSys.

FORMAT.MICRO 1.0 FORMAT.MIC
Microcode for Diskup to format the disk. New
microprogram for use by DiskUp.

EXPANDTABS.PAS 1.0 EXPAND.PAS
Copy a text file and expand tabs to 8 character
columns. New utility program in System B.1

DISKFIX.PAS ---> removed, superceded by DISKUP.
INITSYS.PAS ---> removed, superceded by DISKUP.
HPPRINT.PAS ---> removed, superceded by PRINT.

MICROCODE.SUPPORT.SOURCE - MICROCODE SUPPORT SOURCES

file name	version	file name on floppy	short description.
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PRQPLACE.PAS	1.2	PRQPLA.PAS	Perq microcode placer. Shorten the page size by one line.
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TEST.SOURCE - TEST PROGRAM SOURCES

<u>file name</u>	<u>version</u>	<u>file name on floppy</u>	<u>short description.</u>
PDM.PAS	1.0	PDM.PAS	Perq diagnostic monitor--still under development. New program in System B.1.
PDM2.PAS	-	PDM2.PAS	PDM 2nd module.
PDCOMMON.PAS	-	PDCOMM.PAS	PDM/PDS common definitions.
PDMUTILS.PAS	-	PDMUTI.PAS	PDM utility routines.
PDMLOAD.PAS	-	PDMLOD.PAS	PDM Pascal program loader.
PDM.MAS	-	PDM.MAS	PDM master file for current diagnostics.
PDM.HELP	-	PDM.HELP	PDM help file.
PDM.MICRO	-	PDM.MIC	Pseudo PDS microcode example.
PDMVFY.MICRO	1.1	PDMVFY.MIC	PDM version of VFY.
STACK.MICRO	1.0	STACK.MIC	20-bit, 16-level stack test. New test program in System B.1.
DUAL.MICRO	1.0	DUAL.MIC	Microstore dual address test. New test program in System B.1.
LOW.MICRO	1.0	LOW.MIC	Test for stuck bits in the low bank of the microstore. New test program in System B.1.
HIGH.MICRO	1.0	HIGH.MIC	Test for stuck bits in the high bank of the microstore. New test program in System B.1.
JUMP.MICRO	1.0	JUMP.MIC	Test microcode jumps. New test program in System B.1.
RAT.MICRO	1.2	RAT.MIC	Source data suspicious raster-op test. New test program in System B.1.
CROSSHATCH.PAS	0.0	CROSSH.PAS	Put crosshatch or checkerboard on display screen. New test program in System B.1.

LOOP.MICRO 0.0 LOOP.MIC
Simple tests that repeat--allowing probing of
boards. New test program in System B.1.

KEYTEST.PAS 1.1 KEYTST.PAS
Keyboard test program. New test program in
System B.1.

PASCAL.SOURCE - PASCAL COMPILER SOURCES

file name -----	version	file name on floppy short description. -----
PASCAL.PAS	1.1	PASCAL.PAS Pascal compiler global definitions. See the document "PERQ Pascal Extensions Addendum" for a list of changes to the Pascal compiler.
PAS0.PAS	-	PAS0.PAS
PAS1.PAS	-	PAS1.PAS
PAS2.PAS	-	PAS2.PAS
QCODES.DFS	-	QCODES.DFS Q-Code const definitions.
COMPINIT.PAS	-	COMPIN.PAS Initialization.
CODEGEN.PAS	-	CODEGE.PAS Code generator.
DECPART.PAS	-	DECPAR.PAS Declaration processor.
DEC0.PAS	-	DEC0.PAS
DEC1.PAS	-	DEC1.PAS
DEC2.PAS	-	DEC2.PAS
BODYPART.PAS	-	BODYPA.PAS Procedure/function/program body processor.
BODY0.PAS	-	BODY0.PAS
BODY1.PAS	-	BODY1.PAS
BODY2.PAS	-	BODY2.PAS
BODY4.PAS	-	BODY3.PAS
EXPEXP.PAS	-	EXPEXP.PAS Expression expansion.
EXPR0.PAS	-	EXPR0.PAS
EXPR1.PAS	-	EXPR1.PAS
EXPR2.PAS	-	EXPR2.PAS
EXPR3.PAS	-	EXPR3.PAS
FSYNTAX.PAS	1.0	FSYNTA.PAS Generate PASCAL.SYNTAX from SYNTAX.DAT. New pro- gram in System B.1.
SYNTAX.DAT	-	SYNTAX.DAT Error message data file.

QDIS.PAS	1.1	QDIS.PAS	
		Q-Code disassembler.	Various minor bug corrections.
FQCODES.PAS	1.0	FQCODE.PAS	
		Program to generate QCODES from QCODES.DAT.	New program in System B.1.
QCODES.DAT	-	QCODES.DAT	
		Q-Code name data file.	

DEMO.SOURCE - DEMONSTRATION PROGRAM SOURCES

file name	version	file name on floppy
-----		short description.

KINETIC.PAS	0.1	KINETI.PAS	
		Demonstrate random raster-ops.	New demonstration program.

LOOP.MICRO 0.0 LOOP.MIC
Simple tests that repeat--allowing probing of
boards. New test program in System B.1.

KEYTEST.PAS 1.1 KEYTST.PAS
Keyboard test program. New test program in
System B.1.

PASCAL.SOURCE - PASCAL COMPILER SOURCES

file name -----	version	file name on floppy short description. -----
PASCAL.PAS	1.1	PASCAL.PAS Pascal compiler global definitions. See the document "PERQ Pascal Extensions Addendum" for a list of changes to the Pascal compiler.
PAS0.PAS	-	PAS0.PAS
PAS1.PAS	-	PAS1.PAS
PAS2.PAS	-	PAS2.PAS
QCODES.DFS	-	QCODES.DFS Q-Code const definitions.
COMPINIT.PAS	-	COMPIN.PAS Initialization.
CODEGEN.PAS	-	CODEGE.PAS Code generator.
DECPART.PAS	-	DECPAR.PAS Declaration processor.
DEC0.PAS	-	DEC0.PAS
DEC1.PAS	-	DEC1.PAS
DEC2.PAS	-	DEC2.PAS
BODYPART.PAS	-	BODYPA.PAS Procedure/function/program body processor.
BODY0.PAS	-	BODY0.PAS
BODY1.PAS	-	BODY1.PAS
BODY2.PAS	-	BODY2.PAS
BODY4.PAS	-	BODY3.PAS
EXPEXP.PAS	-	EXPEXP.PAS Expression expansion.
EXPR0.PAS	-	EXPR0.PAS
EXPR1.PAS	-	EXPR1.PAS
EXPR2.PAS	-	EXPR2.PAS
EXPR3.PAS	-	EXPR3.PAS
FSYNTAX.PAS	1.0	FSYNTA.PAS Generate PASCAL.SYNTAX from SYNTAX.DAT. New pro- gram in System B.1.
SYNTAX.DAT	-	SYNTAX.DAT Error message data file.