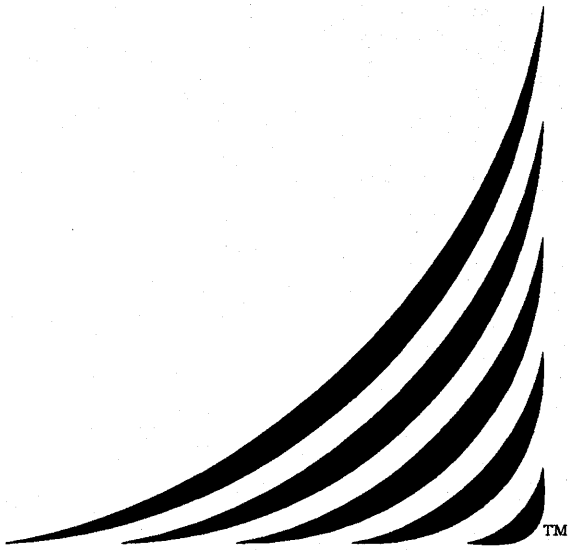

MC68020/MC68881 HP-UX MAINSAIL®

Installation Notes

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XIDAK

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1. Installing MAINSAIL on MC68020/MC68881 HP-UX

1.1. Introduction

Enclosed is your 12.11 Release of MAINSAIL.

This document provides specific instructions for a standard installation of Version 12.11 of MAINSAIL. If you encounter difficulties, please contact XIDAK Customer Support at (415) 324-8745 between 8:00 A.M. and 5:00 P.M. Pacific Time, Monday through Friday, or by FAX at (415) 324-0805.

1.2. Distribution Media

A standard MC68020/MC68881 HP-UX MAINSAIL system is shipped on:

- A "tar"-format half-inch nine-track (industry standard) magnetic tape at 1600 or 6250 BPI, or
- A "tar"-format (specially blocked) Hewlett-Packard data cartridge.

1.3. MAINSAIL Directory

The standard installation instructions assume that the MAINSAIL directory is "/usr/mainsail/12.11". This name is only a suggestion; any directory name may be used, provided that it is substituted for "/usr/mainsail/12.11" in all the examples in this document.

Example 1.3-1 shows how to create and access the MAINSAIL directory on the MC68020/MC68881 HP-UX system.

```
$ mkdir /usr/mainsail/12.11<eol>
$ cd /usr/mainsail/12.11<eol>
```

Example 1.3-1. Creating and Accessing the MAINSAIL Directory

1.4. Reading the MC68020/MC68881 HP-UX System from Tape

Example 1.4-1 shows how to extract the MAINSAIL system from a half-inch tape.

```
<Mount Tape on Tape Drive>

<Verify that the tape drive
is set to read the correct
density (1600,6250)>

$ tar xfv <tapeDevice><eol>

where <tapeDevice> is the device that is
associated with the tape drive (e.g., "/dev/rmt8").

<tar extracts the contents of the tape>
```

Example 1.4-1. Extracting MC68020/MC68881 HP-UX MAINSAIL from a Half-Inch Tape

Example 1.4-2 shows how to extract the MAINSAIL system from a Hewlett-Packard Data Cartridge.

```
<Mount Tape in Tape Drive>

$ dd if=<tapeDevice> ibs=200b obs=20b | tar xfv - <eol>

where <tapeDevice> is the device that is
associated with the tape drive (e.g., "/dev/rct/c2").

<tar extracts the contents of the tape>
```

Example 1.4-2. Extracting MC68020/MC68881 HP-UX MAINSAIL from a Hewlett-Packard Data Cartridge

1.5. Installing MC68020/MC68881 HP-UX MAINSAIL

The MAINSAIL installation script "ihp20.com" is intended to execute under the Bourne shell on the MC68020/MC68881 HP-UX system.

The script can take two optional arguments. The first is the name of the installation installation directory parameter. If specified, the script uses the specified directory to create the full path names for the files in the MAINSAIL configuration file; otherwise, it uses "pwd" to set the installation directory name. The second optional parameter is the value set to the "MAXMEMORYSIZE" configuration parameter of the boostrap. If not specified, a default value is chosen.

For example:

```
ihp20.com /mainsail 'HA00000
```

installs MAINSAIL on the directory "/mainsail", setting "MAXMEMORYSIZE" to 10 Megabytes.

Example 1.5-1 shows sample commands given to install MC68020/MC68881 HP-UX MAINSAIL.

```
$ chmod +x *.com<eol>
$ sh ihp20.com<eol>
```

Example 1.5-1. Installing MC68020/MC68881 HP-UX MAINSAIL

1.6. Running MC68020/MC68881 HP-UX MAINSAIL

MAINSAIL is now installed. Three executable bootstraps named "mainsa", "mained", and "gensrv" have been created. Each of these bootstraps is explained below.

The "mainsa" bootstrap is the most common method of invoking MAINSAIL.

If you are licensed to use MAINEDIT, the bootstrap "mained" invokes the MAINEDIT text editor directly; otherwise the message "Could not invoke EDIT" is given.

The "gensrv" bootstrap is a part of STREAMS. STREAMS, which is not part of the MAINSAIL runtime system, is a separately licensable package that implements portable interprocess communication and process control. If you have received STREAMS with this release, please consult the current version of the "MAINSAIL STREAMS User's Guide" for additional installation instructions for "gensrv".

Be sure to change the protections of the files on the MAINSAIL directory so that they can be read and executed by the appropriate users. Ordinary users usually do not need write access to any of the files on the MAINSAIL directory. Consult the description of the "chmod" (change file protection mode) command in the UNIX documentation.

As a final step, you may wish to copy the bootstrap(s) to a directory in the search path of most users, e.g., "/usr/bin". This allows users to run MAINSAIL by typing "mainsa" as shown in Example 1.6-1. Otherwise, the full path name of each bootstrap (e.g., "/usr/mainsail/12.11/mainsa") must be used.

```
$ mainsa<eol>
MAINSAIL (R) Version 12.11 (? for help)
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 by XIDAK, Inc., Menlo Park, California, USA.
*
```

Example 1.6-1. Running MC68020/MC68881 HP-UX MAINSAIL

If the MAINSAIL directory is changed (or the MAINSAIL files are moved to a new directory), MAINSAIL must be reinstalled by running "ihp20.com", since the path name of the directory is hardwired into the bootstrap files constructed by the installation script. Be sure to connect to the new MAINSAIL directory before running "ihp20.com".