



March 9, 1992

Dear iPSC® Customer:

This package contains Update 3/92 to system software Release 3.3.1. With this software installed on your iPSC® Supercomputer¹, your system is ready for use. Please read through the documentation and distribute it to anyone intending to use the system.

Before using your iPSC System:

- **Read this letter completely.**
- **Verify the contents of this package.**
- **Read the *iPSC®/2 and iPSC®/860 Software Product Release Notes***

CAUTION

Make sure that Release 3.3.1 of the iPSC/2 and iPSC/860 system software has been installed before installing Update 3/92. Installing this update out of order or without the correct dependencies will result in improper system operation.

1. The terms "iPSC Supercomputer" and "iPSC system" refer to any of the following SSD products: iPSC®/2, iPSC®/2S, iPSC®/860 and iPSC®/860S.

Package Contents

This update software package (Update 3/92 to system software Release 3.3.1) is shipped in one box. Please verify that the following items are included:

Media

“iPSC[®]/2/860 System Software Release 3.3.1,
Update 3/92” cartridge tape (part number
312431-001)

If items are missing, or if you have any questions, contact Intel Supercomputer Systems Division immediately. Refer to “Comments and Assistance” for information about how to contact Supercomputer Systems Division.

What is in This Release?

Update 3/92 contains a new *SCSI.exe* file for the Cube Diagnostic Program (CDP) and new Remote Host software for both iPSC[®]/2 and iPSC[®]/860 systems. CDP now correctly detects errors for 760-Mbyte and Panther disks. The changes to remote host will reduce the frequency of *commser* hangs.

Installation

This section describes how to install the Update 3/92 software. Please read through these instructions completely before installing the software.

If you have questions about software installation, please call SSD Customer Support *before* performing any installation procedures:

1-800-421-2823 (Customer Support Response Center)
Your Local Intel Sales Office (in Europe and Japan)
support@ssd.intel.com (Internet address)

NOTE

Adding or removing any boards or components from your iPSC system can damage the system and may invalidate your warranty. Please contact Intel Supercomputer Systems Division Customer Support for assistance in answering your questions.

Installation Time:	Approximately 10 minutes.
Installation Medium:	One cartridge tape, labeled "iPSC [®] /2/860 System Software Release 3.3.1, Update 3/92"
Information you need:	<i>root</i> password.
Disk space you need:	2 Mbyte

1. Log in as *root* on the SRM console.

NOTE

Make sure no one but yourself (*root*) is logged on to the system before or while you are doing the installation.

2. Enter *installpkg* as follows:

```
# installpkg
```

3. The following message appears:

```
Are you installing from tape (y/n)?
```

Enter *y*.

4. The following message appears:

```
Insert Installation Tape in drive and press <RETURN>.
```

Insert the installation tape labeled "iPSC[®]/2/860 System Software Release 3.3.1, Update 3/92" into the tape drive (label up, exposed tape to the left; push until the tape cartridge locks into place).

NOTE

You *must* have installed iPSC System Software Release 3.3.1 *before* you install the iPSC S1 update software package. If you use Remote Host software, you also *must* have installed iPSC Remote Host Software Release 3.3.1 *before* you install the iPSC R1 update software package.

5. Press <Enter>.

6. Eventually, the following message appears:

Available Packages:

1. iPSC R1 Remote Host Software Update to Release 3.3.1
2. iPSC S1 System Software Update to Release 3.3.1

Do you want to install all of the above packages? y/[n]>:

Enter y.

CAUTION

You *must* install the iPSC S1 System Software Update to Release 3.3.1. If the S1 update package is not installed, the CDP diagnostic tests will not run reliably. If you have Remote Host software, you should also install the R1 update package.

When the installation is complete, the root prompt returns.

Changes to Remote Host Software

If you have installed the R1 update package from the “iPSC®/2/860 System Software Release 3.3.1, Update 3/92” tape, use the following instructions to install the changes to the Remote Host software.

1. Copy the following files to a user determined directory on the remote host:

```
lusrlipsc/rhost/fileio/lsrver.c  
lusrlipsc/rhost/h/sockets.h  
lusrlipsc/rhost/utills/getcube.c  
lusrlipsc/rhost/libhost/_getcube.c  
lusrlipsc/rhost/libhost/_xload.c  
lusrlipsc/rhost/libhost/getusock.c  
lusrlipsc/rhost/libhost/openusock.c  
lusrlipsc/rhost/libhost/qm_getfd.c  
lusrlipsc/rhost/server/commser.c  
lusrlipsc/rhost/server/netread.c  
lusrlipsc/rhost/server/netsetups.c  
lusrlipsc/rhost/server/srmcmd.c  
lusrlipsc/rhost/server/tosrm.c
```

2. On the Remote Host, log in as *root*.
3. Shut down the Remote Host server by entering the following command:

```
# bootcube -f -D1
```

4. Make sure that the *commser* process is no longer active:

```
# ps -ax | grep commser
```

5. Kill any remaining *commser* processes.
6. Change directories to the remote host source directory on the Remote Host.
7. Set the umask to 0:

```
# umask 0
```

8. Run *make*:

```
# make
```

9. Run *make install*:

```
# make install
```

10. Boot the remote host *commser*:

```
# bootcube -f
```

Once the remote host *commser* boot process is complete, the system is ready to use.

NOTE

After installing the R1 update package, you must re-link any Remote Host executable code (e.g., the *host* program of an iPSC/860 application that runs on a Sun host). Any code that runs on the SRM, on iPSC/2 nodes, or on iPSC/860 nodes does not need to be re-linked.

Comments and Assistance

Intel Supercomputer Systems Division is eager to hear of your experiences with our new software product. Please call us if you need assistance, have questions, or otherwise want to comment on your iPSC system.

1-800-421-2823 (Customer Support Response Center)
Your Local Intel Sales Office (in Europe and Japan)
support@ssd.intel.com (Internet address)

If you have comments about the iPSC manuals, please fill out and mail the enclosed Comment Card. You can also send your comments electronically to the following address:

techpubs@ssd.intel.com (Internet address)

The Intel Supercomputer Users' Group promotes the exchange of information among users. Intel strongly supports the Users' Group and encourages participation in its activities, which include: Special Interest Groups (SIGs), an annual international users' conference, an e-mail task force, and a "freeware" library of user-contributed software, available electronically to all members of the Intel Supercomputer Users' Group. For membership information contact:

JoAnne Wold (503-629-7737)
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Sincerely,



Elliot Swan

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