

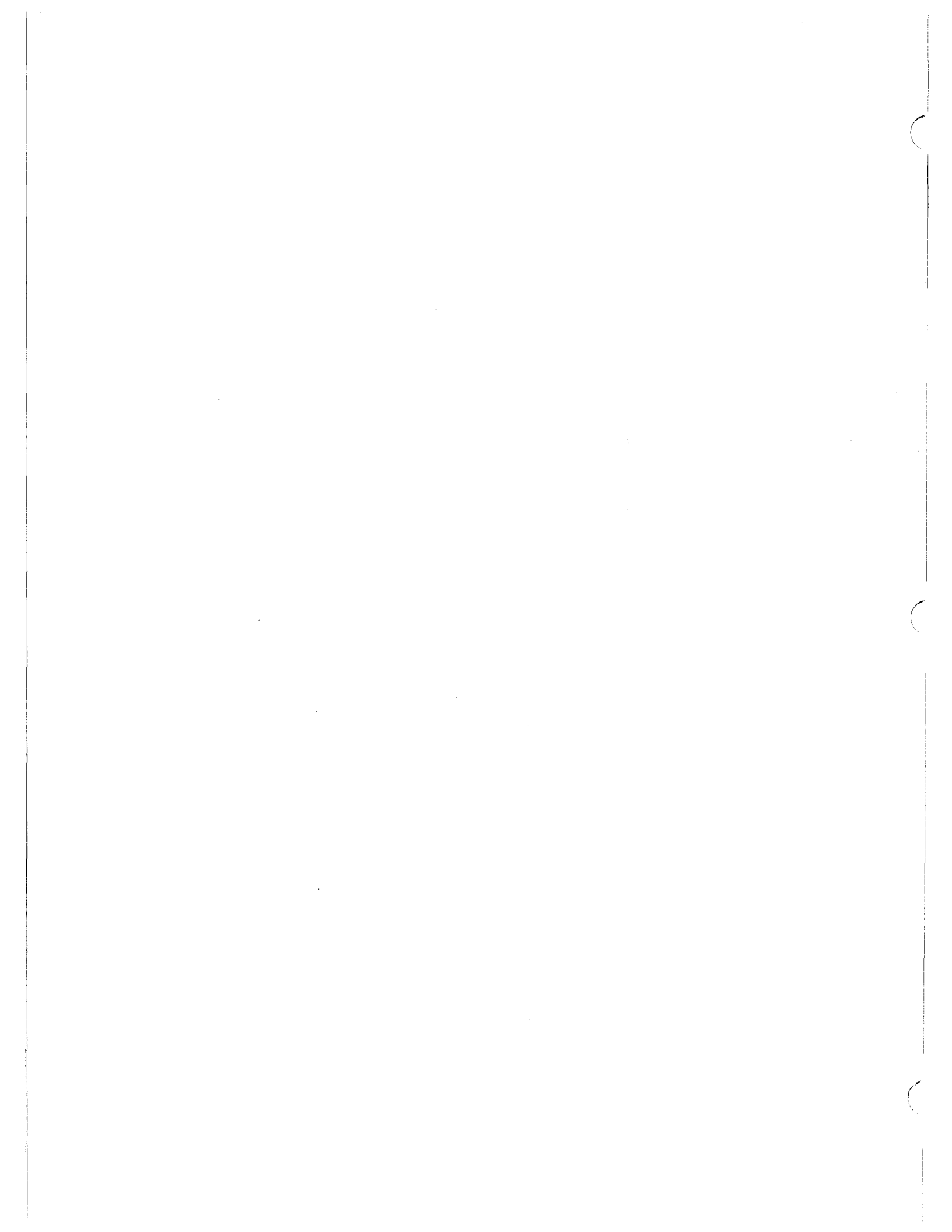


RELEASE NOTICE

May, 1989

**Cray Link Software For UNIX Workstations
(CLS-UX)**

**This notice contains general release information,
feature descriptions, and their impact.**



May 17, 1989

Distribution List for CLS-UX 1.02 Release Notice

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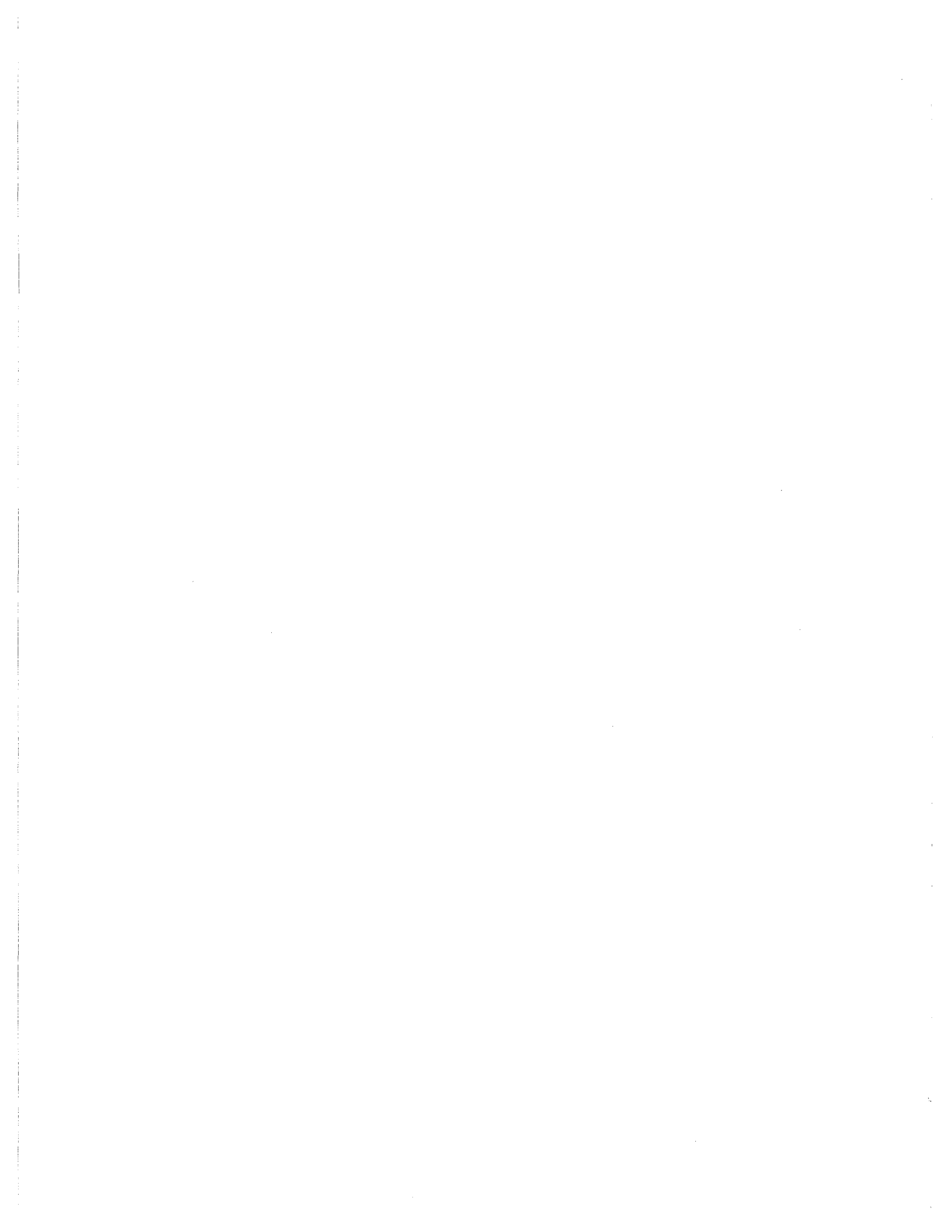
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Questions regarding this distribution list may be directed to John Mackovets (612/681-5913, DISTMH).



CRAY LINK SOFTWARE FOR UNIX WORKSTATIONS

CLS-UX 1.02 RELEASE NOTICE

DOCUMENT NUMBER CL-1.02-BA-RNUX

MAY 1989

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1. INTRODUCTION

Version 1.02 of the Cray Link Software for UNIX Workstations (CLS-UX) is now released. Highlights of the release are described in this Release Notice.

Since this release of CLS-UX relies on Version 4.01 (or higher) of the VAX/VMS Station, each site receiving CLS-UX must also be licensed for the VAX/VMS Station.

This release of CLS-UX must be ordered from the Distribution Center of Cray Research, Inc. Please ensure the required licensing is in place before ordering the CLS-UX software. If you have any questions, or if licensing is not in place, contact your regional Contract Administrator or Lois Olson, Software Licensing Coordinator at (612)681-2910. The back of this Release Notice contains an order form for CLS-UX.

SUPPORT

The latest supported release of the CLS-UX Station was version 1.01. This version will be supported thru September, 1989.

Standard software as defined by Cray Research, Inc. (CRI), includes all COS and associated product set software, all UNICOS and associated product set software and all software written by CRI to support the CRI stations. In general, corrective and critical release support for major release "n-1" will be provided for at least 4 months after the shipment of major release "n".

2. RELEASE CONTENTS

The Cray Link Software for UNIX Workstations Release 1.02 package consists of the following items:

- . CLS-UX 1.02 Release Notice (this document) CL-1.02-BA-RNUX
- . CLS-UX 1.02 tape(s), generated with either the tar (1) command for VAX and SUN, Hewlett-Packard and Silicon Graphics systems and with the rbak command for Apollo Computer systems. Tape cartridges (1/4 inch 3M DC 600A) are available for Sun Microsystem workstations and Apollo Computer workstations and Silicon Graphics. 1/2 inch 9 track tapes are available for Sun Microsystem workstations and Digital Equipment Corporation (DEC) VAXes. DEC TK50 cartridges are also available for DEC VAXes. HP88140 1/4 inch cartridges are available for Hewlett-Packard systems (See back page for order form).
- . CLS-UX 1.02 System Installation Bulletin, CL-1.02-BA-SIBUX
- . CLS-UX 1.02 Test Summary Report, CL-1.02-BA-RTRUX
- . CLS-UX Station Administrator's Manual, publication SU-3122 1.02
- . CLS-UX Station User's Guide, publication SU-3121 1.02

3. NEW FEATURES

The major new features of release 1.02 of CLS-UX is its support for the following additional machines:

- SUN 3/xx and SUN 4/xxx workstations running SunOS 4
- Apollo workstations running Domain/OS SR10
- Silicon Graphics (SGI) IRIS 3030 and 4D workstations running GL2-W3.6 and SGI 4D-3.0 respectively
- Hewlett Packard 9000 series 300 workstations running HP-UX 6.2

Table 1 lists the various systems supported in Release 1.02.

Table 1. Environments Supported in CLS-UX Release 1.02

| Workstation | Operating System | External Protocols | Internal Protocols |
|--|-------------------------------------|--|---|
| SUN 2/xxx SUN 3/xx SUN 4/xxx | SunOS 3.2 to 4.0 | TCP/IP | TCP/IP -or- UNIXAF |
| Apollo DSPxx DNxxxx | AEGIS 9.7 -and- DOMAIN/IX 9.5 | BSD4.2 TCP/IP Release 3.1 -or- | TCP/IP |
| | Domain/OS SR10 | TCP/IP | TCP/IP |
| DEC VAX | ULTRIX-32 Version 2.2 | TCP/IP -or- DECnet | TCP/IP -or- UNIXAF -or- named pipes |
| Hewlett Packard 9000 Series 300 | HP-UX 6.2 | TCP/IP | TCP/IP |
| Silicon Graphics IRIS 3030 | GL2-W3.6 | TCP/IP | TCP/IP |
| Silicon Graphics IRIS 4D | SGI 4D-3.0 -or- SGI 4D-3.1 | TCP/IP | TCP/IP |

Other significant new features with release 1.02 are listed below:

- . Changes to the installation of CLS-UX include the following. These changes are detailed in the System Installation Bulletin, CL-1.02-BA-SIBUX.
 - The installation script, configure, has an additional option of root. This option causes configure to bypass the compilation of a CLS-UX and simply perform the actions requiring the root password.
 - The compilation of interactive graphics exits into a CLS-UX has changed.
- . Enhancements to various commands in Cray context (the cray command) include the following. These enhancements are detailed in the CLS-UX User's Guide, SU-3121.
 - The functions of the msubmit command are now merged into the submit command.
 - The dataset command has a new syntax, enabling parameters to be replaced with a minus sign to indicate the omission of that parameter.
- . The following enhancements have been made to Cray interactive (the cint command). These enhancements are detailed in the CLS-UX User's Guide, SU-3121.
 - Control commands of cint can now be accessed without having to suspend your Cray interactive session to enter cint control mode. Cint control commands are accessed by prefixing them with a command escape character. This character is '~' by default, but can be changed using the new escape command.
 - Several new cint commands are now available:
 - eof Sends end-of-file to the Cray session
 - shell Executes a shell command (equivalent to the ! command)
 - escape Changes the command escape character

- Some other cint control commands have a different syntax from release 1.01. These include the following:
 - create create now has two parameters (before it had none): 'jobname' and 'username'. These identify the Cray interactive session. The command syntax is now as follows:

 create jobname username
 - exit exit must take a parameter of quit to terminate interactive jobs (before this was the default if no parameter was supplied). The command syntax is now as follows:

 exit [quit|hold]
 - input The second parameter to input can now only be a filename (it can no longer take the off, file or tty options). The command syntax is now as follows:

 input [session-number] [file-name]
 - spool The second parameter to spool can now only be off or a filename (it can no longer take the tty or file options). The command syntax is as follows:

 spool [session-number] [off | file-name]
- When connecting to UNICOS using the cint command, if the -j and -u command line options are omitted, the default job and account names are the login name of the user issuing the cint command.
- The cint command can now take the SIGINT and SIGQUIT signals as instructions to send the attention and abort special functions to the current Cray session. This allows user-defined keys (usually CTRL/C and CTRL/\) to be used instead of the cint abort and attention commands. The kill command can also be used (for example, kill -INT and kill -QUIT).

- . The logging facility has been enhanced as follows:
 - The logfile command in Cray context and `crayc` no longer displays messages of class `inform` by default. The "`class inform`" or "`class all`" parameters must be used to display these messages.
 - There is a new class of log messages called "`interactive`". These messages are those concerning Cray interactive sessions (sessions started via the `cint` command).
 - The `notify terminal` command in Cray context and `crayc` now directs output at the terminal at which you issued the command (except for Apollo consoles running Domain IX 9.7).

- . When in full screen mode, the `craycp`, `crayc` and `cray` commands can now read and execute a list of commands held in a file using the following command:

```
< file_name
```

The commands read from the file are echoed to the screen as if they were typed in directly. Control returns to the terminal after the file has been processed.

4. SYSTEMS IMPACT

- If you receive the message 'cannot contact log manager' after issuing a logfile command from either 'crayc' or 'cray', the logfile is too large (over 1 MByte). A new logfile should be created by issuing the 'crayc newlog' command.
- Several UNIX machines of the same type sharing the same filesystem can share a single version of the CLS-UX. Section 5.5 of the Software Installation Bulletin describes how to install the CLS-UX in this environment; this is called a multi-host CLS-UX.

The following guidelines should be used when installing multi-host CLS-UX connections. In all cases below, TCP/IP must be used as the internal protocol (CRAYCP USERPROTO). Also, the TCP/IP services file used must be accessible by all file servers and clients running the CLS-UX software (this is usually /etc/services or Yellow Pages).

- If the CLS-UX services (LOGMAN, SRO, SRI, etc.) are running on a Sun 3 system and you have Sun 4 clients wishing to access the same CLS-UX services, you must perform a complete source install on the Sun 4 system and build the CLS-UX software on the Sun 4 system. Users should set the \$CLS_UX environment variable to the base software structure on the Sun 3 file server, but they must use the user interface binaries on the Sun 4 system.

The same procedure must be followed if the CL-UX services (LOGMAN, SRO, SRI, etc.) are running on a Sun 4 file server and you have Sun 3 clients wishing to access the same CLS-UX services.

- If the CLS-UX services (LOGMAN, SRO, SRI, etc.) are running on an IRIS 3030 system and you have IRIS 4D clients wishing to access the same CLS-UX services, you must perform a complete source install on the IRIS 4D system and build the CLS-UX software on the IRIS 4D system. Users should set the \$CLS_UX environment variable to the base software structure on the IRIS 3030 file server, but they must use the user interface binaries on the IRIS 4D system.

The same procedure must be followed if the CLS-UX services (LOGMAN, SRO, SRI, etc.) are running on an IRIS 4D file server and you have IRIS 3030 clients wishing to access the same CLS-UX services.

- If the CLS-UX services (LOGMAN, SRO, SRI, etc.) are running on an Apollo system running AEGIS and Domain/IX 9.7 (SR9.7) and you have Apollo clients running Domain/OS 10 (SR10) wishing to access the same CLS-UX services, no special installation or building of the software is needed for the Apollo SR10 clients. They can use the user interface binaries built on the SR9.7 system. Remember that the SR10 clients must have access to the TCP/IP services file used by the rest of the CLS-UX services (this is usually /etc/services).

5. SPRs CLOSED

| SPR NO. | DESCRIPTION |
|---------|--|
| 24641 | Ambiguous error message produced when errors occur trying to create logman |
| 27946 | Craycp script includes bad addhost info |
| 27949 | Configure assumes station installation knows system root password |
| 27977 | Clshost and atthost in the status line should not be made uppercase |
| 27978 | Atthost field in status line is too short for composite internet name |
| 27983 | Building CLS on a silicon graphics iris |
| 27988 | Additional corrections for silicon graphics iris |
| 28028 | Configure update of /etc/rc for autostart will not work |
| 28153 | Jobs disappear when sent through a server |
| 28154 | Need a better error exit if internal devices does not exist |
| 28160 | Nodenames in text field are case-sensitive |
| 28161 | Job lost staging error if CLS is overloaded with user |
| 28164 | <^C> is not supported by cint |
| 28185 | Need to determine which datasets should be held or cancelled if an error |
| 28197 | If nodename is long, it gets truncated in banner |
| 28254 | Staging processes will not always terminate from crayc |
| 28312 | Notify command to specify which terminal |
| 28313 | Play command request |
| 28315 | CLS cannot cope with multiple segments of status info |

- 28322 Type of answer expected from deluser prompt is not specified
- 28433 Wrong message displayed when kill command is not issued from submitting node
- 28435 Configure can wipe out cray and cint
- 28455 No procedure for building graphics exit into interactive
- 28544 Text version of log file has wrong timezone
- 28640 Job submission failed with 'state nfs file handle' error message
- 28700 Craycp stream command confusing
- 28702 crayc spool off and on commands cause crayc to core dump
- 28705 Error message for craycp type command are not appropriate
- 28823 Apollo install will fail due to incorrect file permissions
- 28879 List display in cray context reverts to previous display on next screen refresh
- 28900 Unable to stage files from ultrix remote if sun is server
- 28901 SRO dies and generates core dump when remote tries to connect with invalid data
- 28930 The install script with binary option puts menus and help files in sccs
- 28931 Setpriv script does not change access permissions of SRI
- 28961 Status line in cray context sometimes out of date
- 29130 Status with own qualifier displays reverts to 'status all' after job submission
- 29132 Status replies from VNL spanning one segment have problems
- 29240 Compilation problems with compiling CLS-UX in sunos 4
- 29361 Need to have an online manual page available for cint

- 29394 Cray context session doesn't know sro and sri connected
- 29414 Dataset command with all options never returns
- 29415 Specifying unix-domain as userproto in craycp does not work
- 29520 SRI/SRO grow indefinitely
- 29582 Fetch/discard with / in text field equals node containing station code
- 29583 Discard with ~file does not process correctly
- 29584 Fetches much slower than discards
- 29585 Staging image names for remotes must begin _A
- 29591 Show the system time in the status bar for all CLS_UX stations
- 29766 Craycp save before edit of new file fails
- 29831 Cint help message does not mention exit
- 29969 CLS_UX server on ultrix system does not use more than one stream to Apollo
- 30219 Interactive does not return cos system prompt after executing .cintrc
- 30545 Poor performance during acquire processing
- 30609 Datasets do not stage through ultrix server
- 30966 Problem with gethostnamby for ethernet interface names
- 31010 Format error upon binary install
- 31112 Full cray status can't be seen on an Apollo client
- 31131 The CLS_UX does not handle odd size workstation windows
- 31135 SRO sometimes appears to loop, racking up excessive cpu changes
- 31137 SRO terminates with fatal error

6. OUTSTANDING KNOWN SIGNIFICANT PROBLEMS

The following known significant problems are outstanding at the time of this release.

- 1) On IRIS 3030, occasionally when using crayc, the prompt and cursor get moved to the upper right hand corner of the screen after a status update. Hence when the user types, the input is displayed over the top line of the window.
- 2) Using Apollos with SR10, whenever the user exits from craycp, crayc or cray, a garbaged prompt appears. This may be caused by an incorrect terminal set up for the same happens when exiting from simulating a VT100.
- 3) On Apollos, users can enter the EOF keyboard sequence (usually CTRL/Z) to log off UNICOS interactive; the UNICOS session is successfully deleted. However, when the user tries to initiate another 'cint' session within the same window, the session appears to hang after replying to the 'Login:' prompt and will eventually time out. Users can continue with the login process by entering a carriage return twice after entering their UNICOS ID; UNICOS will then respond with the "Password:" prompt.
- 4) It is not possible to bring the CLS-UX up automatically on a IRIS 4D (SPR 31136).

7. TESTING STATUS

The testing for Version 1.02 was shared between CRAY UK, Bracknell and Mendota Heights.

An SPR tracking was done in the UK. All problems discovered as a result of internal testing have been resolved and the product is ready for release and general usage. All outstanding problems have been SPRd against this release.

Machines that CLS-UX 1.02 was tested against using both COS and UNICOS are as follows:

| | | | |
|-------------------------------|--|-----|--------|
| VAX Workstation II | Ultrix Version 2.0.1 | TCP | DECNET |
| VAX 8250 | Ultrix Version 2.0.1 | TCP | DECNET |
| Sun 3 Series | Sun OS 3.5/Sun OS 4.0 | TCP | |
| Sun 4 Series | Sun OS 4.0 | TCP | |
| Apollo DN4000 | Aegis - Domain/IX Kernel Revision 9.7 | TCP | |
| Apollo DN3500 | Domain/OS Software Release 10 | TCP | |
| Apollo DN3500 | Domain/OS Software Release 10.1 | TCP | |
| HP 9000 Series 350 | HP-UX 6.0 | TCP | |
| Silicon Graphics IRIS 3030 | CL2-W3-6 | TCP | |
| Silicon Graphics IRIS 4D | 4D-3-1 | TCP | |

CRAY LINK SOFTWARE UNIX STATION (CLS-UX) RELEASE 1.02 ORDER FORM

To: Cray Research, Inc.
Distribution Center
2360 Pilot Knob Road
Mendota Heights, MN 55120
U.S.A.

From: _____

Site Code: _____

Subject: Cray Link Software UNIX Station (CLS-UX) Release 1.02

Please send me the items checked below:

_____ CLS-UX Station Whole Release Package and Documents with the following media.

- Circle one: - Sun or VAX/ULTRIX workstation 1/2 inch 9-track tape
- Sun workstation DC 600A cartridge
- VAX/ULTRIX TK50 cartridge
- IRIS workstation DC 600A cartridge
- Hewlett-Packard cartridge
- Apollo DC 600A cartridge

Additional copies of separate components (specify desired number):

_____ CLS-UX System Installation Bulletin,
Publication CL-1.02-BA-SIBUX

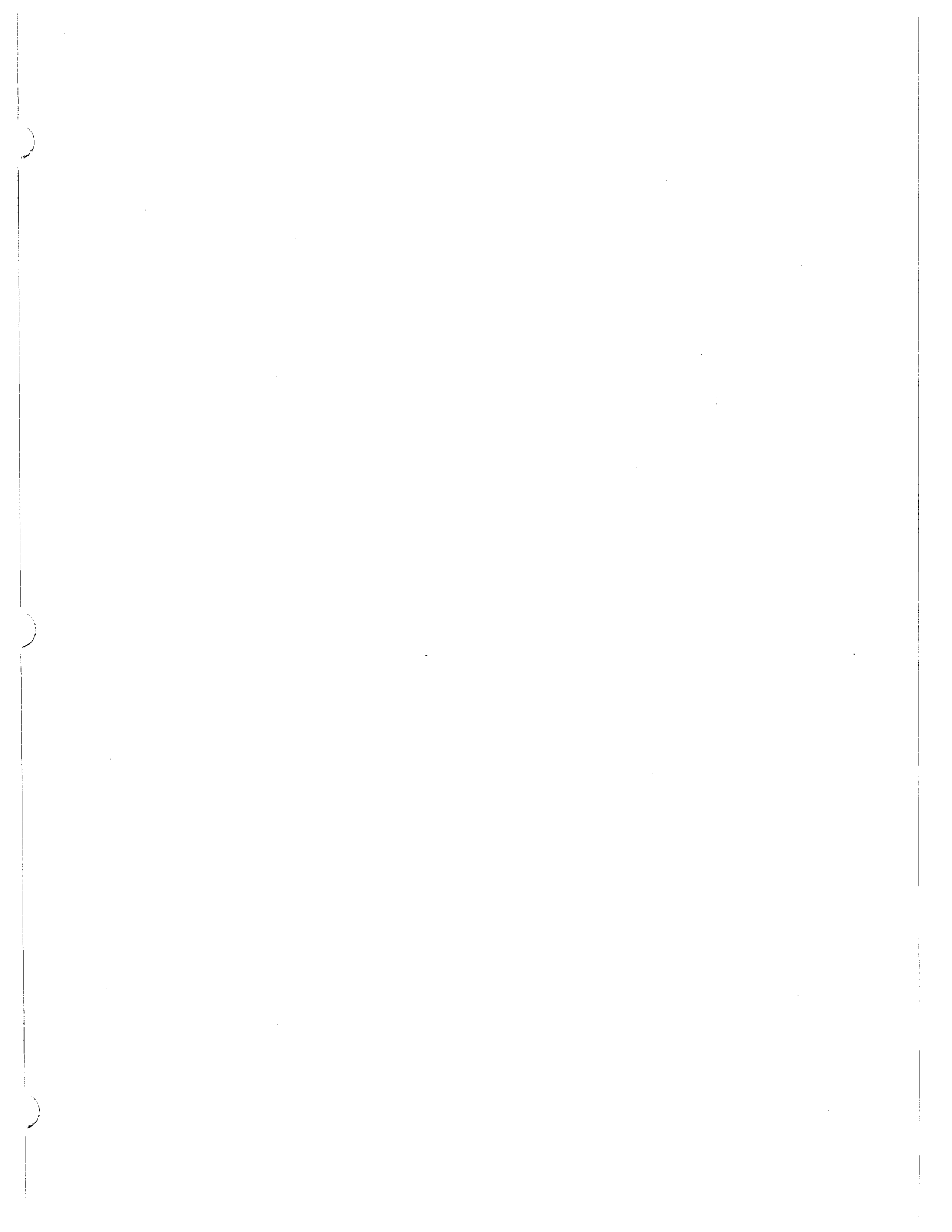
_____ CLS-UX Station User's Guide, Publication SU-3121

_____ CLS-UX Stations Administrator's Manual, Publication SU-3122

_____ CLS-UX Release Notice, Publication CL-1.02-BA-RNUX

_____ CLS-UX Test Summary Report, CL-1.02-BA-RTRUX

Note: Please ensure the required licensing is in place before ordering the CLS-UX station 1.02 release. If you have any questions for if licensing is not in place, contact your regional Contract Administrator or Lois Olson, Software Licensing Coordinator at (612) 681-2910.





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