



RELEASE NOTICE

June, 1989

CDC NOS/BE STATION 1.16

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

CDC NOS/BE Station 1.16 Release Notice

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1. INTRODUCTION

Version 1.16 of the CDC NOS/BE Station is now released. Highlights of the release are described in this Release Notice.

The CDC NOS/BE Station 1.16 release is a major release. This release contains 5 new major features and resolves 47 SPRs and other known problems.

OVERVIEW

Release 1.16 of the CDC NOS/BE station includes the support of the UNICOS data (UD) format as the default for UNICOS job submission, expanding the station's link status display, support of shared-link devices between stations running on the CYBER mainframe, and support of the NSC link adapter fault message.

SUPPORT

The latest supported release of the CDC NOS/BE Station was version 1.15. This version will be supported through October, 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".

The UNICOS operating system is derived from the AT&T UNIX System V operating system. UNICOS is also based in part of the Fourth Berkeley Software Distribution under license from the Regents of the University of California.

CRAY, CRAY-1, HSX, SSD, and UNICOS are registered trademarks, and CFT, CFT77, CFT2, COS, Cray Ada, CRAY-2, CRAY X-MP, CRAY X-MP EA, CRAY Y-MP, CSIM, Delivering the power..., IOS, SEGLDR, and SUPERLINK are trademarks of Cray Research, Inc.

APOLLO is a registered trademark and AEGIS is a trademark of Apollo Computer Inc. HYPERchannel and NSC are registered trademarks of Network Systems Corporation. DEC, MicroVAX, VAX, and VMS are trademarks and VAX Supercomputer Gateway is a product of Digital Equipment Corporation (DEC). IBM, MVS, and VM are registered trademarks of International Business Machines Corporation. CDC is a registered trademark, CYBER is a trademark, and NOS/BE and NOS/VE are products of Control Data Corporation. UNIX is a registered trademark of AT&T.

2. NEW FEATURES AND ENHANCEMENTS

The CDC NOS/BE Station 1.16 release contains the following new features and enhancements:

- . Shared-link devices
- . Support of the station slot authorization file (ssaf)
- . Adaptation for SCP & USCP changes and enhancements
- . Fault message support
- . Enhanced driver error recovery

Features and Enhancement Descriptions:

UNICOS 5.0 Support

This feature provides enhancements to previous support of the UNICOS station control protocol (USCP). Conversion to UNICOS data (UD) format is provided for jobs submitted to UNICOS. UNICOS job files on the CDC NOS/BE station will be converted from 8/12-bit ASCII format to the UD format before they are sent to UNICOS.

Enhanced Link Status Display:

The link status display is expanded to include each link's last message number and channel ordinal.

Shared Link Devices between two or more CDC NOS/BE Stations:

With this release, two or more CDC NOS/BE stations running on one CYBER mainframe can share either an NSC A110 adapter or a CRI FEI device. Each CDC NOS/BE station sharing an NSC adapter can address the same remote adapter or different remote adapters which can connect to the same or to separate Cray computer systems. The separate Cray systems do not need to be running the same operating system or operating system level.

Shared Use of Linked Devices between CDC NOS/BE Station(s) and NOS/VE Station(s):

The CDC NOS/BE station(s) can share a link device, either an NSC adapter or a CRI FEI, with NOS/VE station(s) running in the same dual-state CYBER mainframe. This feature provides an easy transition from the CDC NOS/BE environment to the NOS/VE environment (or vice versa).

Fault Message Handling:

The CDC NOS/BE station now recognizes the fault message received from a local or remote NSC link adapter, which indicates that the last message was not sent to its destination. The CDC NOS/BE station transmits the message again and notifies the operator that the fault message was received.

3. SPR's CLOSED

The following SPR's are closed with this release: Note that some SPR's were written against the CDC NOS Station but also apply to the CDC NOS/BE Station.

<u>SPR NO.</u>	<u>Problem or Solution Description</u>
20484	The station will substitute the acquisition code ST if it receives an unknown acquisition code from the Cray system.
21233	Corrects several deficiencies and inconsistencies in the FEI driver initialization, termination, and error handling.
21936	Processing blanks in the text field.
21937	Problem with the "-R" option.
22260	Do not send empty transparent files to the Cray system.
22944	The transfer overlay may not terminate.
22945	Operator "DROP" of the station was not working correctly.
22947	CSD may access an address beyond field length.
22949	CTASK routine destroys two important locations.
23069	SCO incorrectly handles jobs coming from NOS/VE.
23079	The link driver CSD can hang CDC NOS/BE.
23080	The BLDTSK routine can overwrite the end of the JCL block.
23083	Correct security problem.
23094	Remove abort if there are no STTs.
23146	Incorrect code in transfer tasks.
23530	Problems in the "STATUS_CRAY" procedure of the CDC NOS/BE station.
23531	Problem in the "SUBMIT_CRAY_JOB" procedure of the CDC NOS/BE station.
23845	CSUBMIT and CSTAT can be called under DIS.

<u>SPR NO.</u>	<u>Problem or Solution Description</u>
23933	Correct L-display paging to recognize end-of-data.
25357	A COS FETCH statement with DF=BB from the CDC NOS/BE station creates an incorrect COS dataset.
29947	A CRSTAT station message indicates CSD attempted to access invalid control point.
31268	Process the lowercase job name in the dataset transfer request correctly. This prevents the subsequent error message 200.
31282	Prevent junk being sent at end of a transparent file as part of the rounding up to the next CYBER word boundary for UNICOS. (Introduces trailer on transparent files saved on the CDC NOS/BE system).
	The following problems have been corrected, and instead of an SPR number, the correction deck name is used for identification.
FIXES	Allow tracing to be initiated from the CRSTAT control statement.
SYSDISP	UNICOS entry priority is displayed as a whole number, and not with a period before the last digit in the system status display.
OPERDIS	Allow the OPERATOR command to be used with UNICOS.
NOSKIP	Remove skipping of the first column of the Cray job submitted from the NOS/VE dual-state procedure through the CDC NOS/BE output queue. This is no longer necessary.
EMPTYF	Do not send an empty UNIX data format file which can hang further transfers through certain versions of the IOS driver because the file is now placed in the output queue without carriage control characters.
ACWMSG	Distinguish between link write errors within the routine ACW and include the routine ACW and ACR in the list of common routines in the deck LISTCOM.
TEXPAND	Correct tab expansion within UNIX data input processing.
COPYRIT	Update copyright messages.

<u>SPR NO.</u>	<u>Problem or Solution Description</u>
OPREQ	Change the size of operator function request message. Without this change, operator and user request to kill or drop jobs on UNICOS are not processed.
DELMQT	Correct DELETESCTMQT pointer processing to prevent CM OUT OF RANGE error.
UWCMOD	Do not send empty UNIX data format segment which can hang further transfers through certain versions of the IOS driver.
MSGRTRY	Correct support of the 307/313 message processing.
DELAY	Increase delay waiting for Cray response.
STOPW	Implement operator password for UNICOS 5.0.
EXTSTA	Use extended status field for system status display.
UIOGSP	Change UIO to call the routine GSP properly when no station is found.
UWCMOD1	UNICOS data format write to the Cray system fails to save the CYBER file status.
CSUBMSG	Correct CSUBMIT to submit job to input queue even though the CDC NOS/BE station is not active.
RESCH	Multiple CDC NOS/BE stations may hang each other after channel hung condition on FEI link.
RESCP	Restore CSD (link driver PP program) to the station's control point before accessing the station's lowcore tables during initialization.
CHKFL	Correct UIO to check for non-zero field length before accessing the station's field length.
ENDPROC	Reset end condition in reprieve processing. This allows for proper handling of the KILL command when it is desired to stop the station without retaining any output.
BLDP116	Correct the station generation procedure to improve readability and reflect changes in this release.

<u>SPR NO.</u>	<u>Problem or Solution Description</u>
PSBERR	Correct corruption of the last characters of a file in UD format sent to UNICOS.

5. COMPATIBILITY

New parameters have been added to the station startup control statement.

The CDC NOS/BE Station 1.16 is targeted to run on CDC NOS/BE Version 1.5 levels 627 through 712 and will interface with Cray systems running COS 1.16 or UNICOS 4.0.

6. RELEASE MATERIALS

The CDC NOS/BE Station 1.16 release consists of the following materials:

- . CDC NOS/BE Station 1.16 Release Notice
- . CDC NOS/BE Station 1.16 Release Tape (1600 bpi)
- . CDC NOS/BE Station 1.16 Installation Bulletin (SIB)
- . CDC NOS/BE Station 1.16 Test Summary Report
- . CDC NOS/BE Station Summary of Differences for UNICOS Installations, Publication SN-0240 A
- . CDC NOS/BE Station Operator's Guide, Publication SG-0058 C
- . CDC NOS/BE Station Reference Card, Publication SQ-0241 A
- . CDC NOS/BE Station Internal Reference Manual, Publication SM-0052 D
- . CDC NOS/BE Station Reference Manual, Publication SR-0034 F

7. TESTING STATUS

The CDC NOS/BE station 1.16 release has been tested in the following environments:

- . A development version has been running at Cray Research GmbH (West Germany) on a CYBER 830 connected to a CRAY X-MP/216 through the FEI and NSC HYPERchannel.
- . Alpha testing was performed at the development site, running COS 1.16BF3 on a CRAY X-MP, and at a customer site, running UNICOS 4.0 with a USCP 5.0 prerelease on a CRAY-2 machine.
- . The CDC NOS/BE station software was installed at a field test site running on a CYBER 825 that was connected to a CRAY X-MP24 through an FEI. The software used was CDC NOS/BE level 664 and UNICOS/USCP 4.0.

APPENDIX A. CDC NOS/BE Station 1.16 ORDER FORM

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

Attn: Distribution Center - Order Desk

SUBJ: CDC NOS/BE Station 1.16 Release

FROM: _____

Site Code: _____

Please send me the items checked below:

CDC NOS/BE Station 1.16 Whole Release Package and documents with magnetic tape

Additional copies of separate components (specify desired number):

CDC NOS/BE Station 1.16 Release Notice

CDC NOS/BE Station 1.16 Installation Bulletin (SIB)

CDC NOS/BE Station 1.16 Test Summary Report

CDC NOS/BE Station Summary of Differences for UNICOS Installations, Publication SN-0240 A

CDC NOS/BE Station Operator's Guide, Publication SG-0058 C

CDC NOS/BE Station Reference Card, Publication SQ-0241 A

CDC NOS/BE Station Internal Reference Manual, Publication SM-0052 D

CDC NOS/BE Station Reference Manual, Publication SR-0034 F

Cray Research, Inc. 3-Ring Binders

NOTE: Please ensure the required licensing is in place before ordering the CDC NOS/BE Station 1.16 release. 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.

