B 1000 Command AND Edit (CANDE) Program

Relative to Release 13.0

UNISYS

Style Number

B 1000 CE1

Catalog Number

3258 6174

Capabilities

Unisys Command AND Edit (CANDE) program provides generalized file preparation and updating capabilities in an interactive workstation-oriented environment.

The B 1000 CANDE program is a Message Control System (MCS) that runs in conjunction with the B 1000 Network Definition Language (NDL) system. The NDL-generated network controller program performs all the data communications related functions, while the CANDE program performs file updating and text editing functions.

The CANDE program can support a maximum of 64 workstations and is tailored to make optimum use of ET 1000, ET 2000, and MT 98X series of workstations. However, any alphanumeric terminal that has been qualified with NDL is capable of interfacing with CANDE.

The CANDE program supports a basic usercode/password type of security. The user must first log on to CANDE before making use of the CANDE program capabilities. The CANDE program can optionally use the File Security mechanism implemented in the MCP. A recovery system is also provided.

The CANDE program runs under control of the Unisys Master Control Program and allows other programs to be executed through it and to be assigned to the workstation from which the program was executed.

System Requirements

Central Processor:
B 1000 Systems with Cache Memory (except CMS B 1000 Systems) and single-line or multi-line control

Memory:
64KB plus 4KB for each user who is logged on to CANDE and who has a workfile (excluding MCP, Network Controller, and user program requirements)

Program Products:
Master Control Program
Network Definition Language (NDL)
Compiler

Reference Material

B 1000 CANDE Installation and Operation Manual (form 1152006)

Product Support

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Product Identification

Program Identification	Description	Code Form
CANDE	Command AND Edit Program	Object Code
CANDE/ANALYZER	Analyzer CANDE Audit file	Object Code
CANDE/TEACH-FILE	CANDE System Information File	Data

System Requirements

Central Processor:
B 1000 Systems with Cache
Memory (except CMS B 1000
Systems)

Memory:
Minimum of 64KB plus user
program memory space

Peripherals:
Operator workstation
Dual disk pack drive, or
head-per-track
disk files
Line printer

Reference Material

B 1000 Systems System Software
Operation Guide Volume 1
(form 5024508)

Product Support

MCP II

Product Identification

Program Identification	Description	Code Form
GISMO3	Handles Physical I/O & Job Scheduling	Micro Code
MCPII/MICRO-MCP	Handles Logical I/O	Micro Code
SDL2/INTERP3M	Interprets SDL2 Object Code	Micro Code
SDL2INTRIN/ AGGREGATE	SDL2 Common Routine Library	Object Code
SYSTEM/COPY	Generalized Library Maintenance	Object Code
SYSTEM/INIT	Loads Operating System	Micro Code
SYSTEM/ODT	Handles ODT Messages	Object Code
BASICTRN3/AGGREGATE	BASIC Common Routine Library	Object Code
BASIC/INTERP3M	Interprets BASIC Object Code	Micro Code
COBOL/INTERP1M	Interprets COBOL 68 Object Code	Mirco Code
COBOL74/INTERP1M	Interprets COBOL 74 Object Code	Micro Code
FOR-INTRIN	FORTRAN 66 Common Routine Library	Object Code
FORTRAN/INTERP1M	Interprets FORTRAN 66 Object Code	Micro Code
FORTRAN77/INTERP2M	Interprets FORTRAN 77 Object Code	Micro Code
FORTRAN77/INTRINSICS	FORTRAN 77 Common Routine Library	Object Code
IBASIC/INTERP	Interprets BASIC Object Code	Micro Code
IBASIC/INTRINSICS	IBASIC Common Routine Library	Object Code
RPG/INTERP1M	Interprets RPG Object Code	Micro Code
SDL/INTERP1M	Interprets SDL Object Code	Micro Code
SDLINTRIN/AGGREGATE	SDL Common Routine Library	Object Code
SYSTEM/CONTROLLER	Skeletal Network Controller	Object Code
COBOL74B/INTERP	Interprets COBOL 74B Object Code	Micro Code
MCPII	Master Control Program	Object Code
PASCAL/INTERP4M	Interprets PASCAL Object Code	Micro Code
PASCAL/LIBRARY	PASCAL Common Routine Library	Object Code
SYSTEM/PANDA	Analyzes Disk Allocation	Object Code

B 1000
Network Definition
Language (NDL)
Compiler

Relative to Release 13.0

UNISYS

Style Number

B 1000 NDL

Catalog Number

3258 6752

Capabilities

Unisys Network Definition Language (NDL) Compiler converts source statements written in NDL into generated tables and object code required for a custom data communications Network Controller. NDL allows the user to define the Network Controller for the line and workstation network in straightforward syntax. The Network Controller performs line disciplines, buffer management, message queueing, audit, and processes and supervises the flow of messages between user programs and the remote workstations. Through the NDL-generated Network Controller, the user program can deal with communication devices in the same manner as with more conventional peripheral devices such as card readers, printers, and magnetic tape.

General Features

Programming Simplicity
The Network Definition Language (NDL) is a programming tool that permits programmers to define a custom Network Controller in an easy-to-learn syntax. Isolation of the data communications logic in the Network Controller benefits the B 1000 data communications user because:
- Application programmers do not have to be trained on workstation or line discipline techniques.
- Application programs are not rewritten due to line or workstation changes.
- Changes to the data communications network are often dynamic. New lines, workstation types, priorities and communications techniques are easily implemented through the NDL Compiler.

Operating Efficiency
The Network Controller accommodates an optional Message Control system (MCS) when a user wishes to participate in, or rigidly control, system decisions such as security, file control, error handling, pre-processing, or post-processing. It has far more power than a normal program and operates in close harmony with the Network Controller as well as with the Master Control Program operating system. The MCS can be Unisys Generalized Message Control System (GEMCOS), Supervisory Message Control System (SMCS), or a user written MCS. A user MCS can be written in the User Programming Language (UPL) or COBOL.

System Requirements

Central Processor:
B 1000 Systems with Cache Memory (except CMS B 1000 Systems)

Primary Storage:
Minimum of 48KB (excluding Master Control Program requirements) required to generate network controller

Peripherals:
Operator workstation
Input device
Line printer
Disk subsystem

System Software:
Master Control Program II

Reference Material

B 1000 Systems Network Definition Language (NDL) Language Manual (form 1152014)

B 1000 Systems Network Controller Installation Manual (form 5025257)

B 1000 Systems System Software Operation Guide (form 5024508)

B 1000 Systems NDL/LIBRARY Functional Description Manual (form 1168937)

B 1000 Systems MCS Functional Description Manual (form 1152253)

Product Support

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Product Identification

Program Identification	Description	Code Form
NDL	Compiler	Object Code
NDL/LIBRARY	NDL Source Library File	Source Code
SYSTEM/QCONFIGURE	Customizes Line Configurations	Object Code
SYSTEM/QFQUAD1	Quad Line Adapter-1 Firmware	Data File
SYSTEM/QCONFIGS	Line Configuration File	Data File
SYSTEM/QPARMHELP	HELP Information File	Data File
SYSTEM/QFEASYNC	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFEBISYNCA	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFEBISYNCE	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFEDIRECT	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFESYNC	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFETTY	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFOASYNC	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFOBISYNCA	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFOBISYNCE	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFODIRECT	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFOSYNC	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFOTTY	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFHBISYNCA	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFHBISYNCE	Quad Line Adapter-2 Firmware	Data File
SYSTEM/QFHSYNC	Quad Line Adapter-2 Firmware	Data File

B 1000
Report Program
Generator (RPG)
Compiler

Relative to Release 13.0

UNISYS

Style Numbers

B 1000 RPG, B 1990 RPG

Catalog Numbers

3258 7099, 3629, 2621

Capabilities

Unisys Report Program Generator (RPG) Compiler converts source programs written in the RPG language into object programs for execution on B 1000 Systems.

Unisys RPG is a problem-oriented language whose broad applicability makes it valuable in almost any data processing installation. Its simplicity helps minimize programming time, while a number of extensions (incorporated into Unisys RPG) increase the effectiveness of this language as a convenient, low-cost programming tool.

Unisys RPG Compiler produces compact object programs which are executed under the supervision of the B 1000 Master Control Program. The Compiler permits RPG programs written for most other systems to be used by B 1000 Systems with little or no change.

General Features

Programming Simplicity
- Unisys RPG is a simple, easy-to-use programming language. The standard programming forms are self-documenting and require memorizing of very few conventions. These self-training forms increase the efficiency of your programming staff, and decrease both the cost of program implementation and the effect of any personnel changes. RPG programs are segmented automatically during compilation, which means that programmers can generally write without considering the computer's memory size as a limiting factor.
- File processing is very convenient in RPG with its access to system indexed files and system relative files, in addition to the original serial and random access files.
- The RPG data management system provides the ability to process a DMS II data base using conventional RPG Syntax and Concepts.

Operating Efficiency
- Compiled RPG programs operate under Master Control Program supervision. An RPG program can be multiprogrammed with other language compilations as well as with production work to insure efficient use of all system resources. Multiprogramming is a Master Control Program function and requires no intervention by programmers or the system operator.

Compatibility

- Most other RPG languages are compatible with Unisys RPG. Virtually no conversion effort is required for implementing a user's existing RPG programs on a B 1000 System. Tests and experience demonstrate that, in most cases, RPG programs can be processed more efficiently and with less memory requirements by B 1000 Systems than by the computers for which they were originally prepared.
- RPG programs also allow for a total upward growth within the B 1000 family of systems without reprogramming and recompilation.

System Requirements

Central Processor:
B 1000 Systems with Cache Memory (except CMS B 1000 Systems)

Primary Storage:
Minimum of 16KB (excludir Master Control Program requirements)

Peripherals:
Operator workstation
Line printer
Input device
Disk subsystem

System Software:
Master Control Program
SORT/VSORT

Reference Material

B 1000 Systems RPG Reference Manual (form 1152063)

Product Support

Product Identification

Program Identification	Description	Code Form
RPG	Compiler	Object Code
RPG/REORG	File Reorganization Feature	Object Code
RPG/REORD	File Reorganization Feature	Object Code
RPG/BTF	Build Tag File Feature	Object Code

B 1000
Supervisory Message
Control System (SMCS)

Relative to Release 13.0

UNISYS

Style Numbers

B 1000 SMC, B 1990 SMC

Catalog Numbers

3258 7198, 3629 2480

Capabilities

Unisys B 1000 Supervisory Message
Control System (SMCS) offers the
capabilities of a message control
system interface to the data
communications network. The
SMCS Program performs as the
supervisor for a data
communications system which
may include such Unisys software
as CANDE, RJE, HASP, SYCOM,
and other on-line programs of
either Unisys or customer origin.
As the supervisor for the data
communications network, the
SMCS Program greatly expands
the flexibility of the remote
workstation.

General Features

- Control security through a log-on
  procedure, checking user security
  codes and spawning jobs in
  accordance with the requirements
  of file security.
- Allow communications from
  workstation to workstation,
  including the operator's
  workstation.
- Designate which workstations
  have limited access to MCP and
  SMCS commands.
- Designate workstations as remote
  operator workstation which have
  access to MCP commands and
  information about the status of the
  system.
- Designate workstation as controllers
  which enables certain network
  reconfiguration commands from
  those workstations.
- Spawn jobs initiated from a remote
  workstation.
- Allow a user at a remote
  workstation to request a function of
  a program without signing on to
  the program.
- Attachment to user programs via
  remote files.
- Allow expanded network reporting
  that is tailored to individual remote
  workstations for those
  workstations designated as
  restricted, or network reporting
  which involves the whole network
  and the operating system for those
  workstations designated as
  unrestricted.

System Requirements

Central Processor:
B 1000 Systems with Cache Memory (except CMS B 1000 Systems)

Memory:
35KB minimum (excluding MCP, Network Controller, and user program requirements)

Program Products:
Master Control Program (MCP)
Network Definition Language (NDL)
Compiler

Reference Material

B 1000 Systems SMCS Installation, Operation, and Functional Description Manual (form 5016488)

Product Support

Product Identification

Program Identification	Description	Code Form
SMCS	Supervisory Message Control System	Object Code
SMCS/HELP	Command Syntax Information	Data File

B 1000
Systems SORT

Relative to Release 13.0

UNISYS

Style Numbers

B 1000 SRT, B 1900 SRT

Catalog Numbers

3258 7180, 3256 1839

Capabilities

Unisys B 1000 Systems SORT is a general purpose program that orders the records in a data file. It may be invoked as a free-standing program or intrinsically from within other programs. The user may specify a number of options including sorting techniques, memory allocation, and percentage of file in order.

System Requirements

Central Processor:
B 1000 Systems with Cache Memory (except CMS B 1000 Systems)

Primary Storage:
Sort Generator – 4.5KB
Tape Sort – 8KB
Disk Sort – 8KB
Inplace Sort – 8KB
Merge – 8KB
Sort/Utility – 8KB
(excluding Master Control Program requirements)

Peripherals:
Operator workstation
Line printer
Input device
Disk subsystem

System Software:
Master Control Program

Reference Material

B 1000 Systems SORT Manual
(form 1152071)

Product Support

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Product Identification

Program Identification	Description	Code Form
SORT	Sort Generator	Object Code
SORT/VSORT	Disk Sort	Object Code
SORT/QSORT	Inplace Sort	Object Code
SORT/TAPESORT	Tape Sort	Object Code
SORT/MERGE	Generalized File Merge	Object Code
SORT/UTILITY	IBM$DSORT	Object Code

B 1000
Utility Programs

Relative to Release 13.0

UNISYS

Style Number

B 1000 UTL

Catalog Number

3258 7370

Capabilities

The system utility programs perform common general-purpose functions. Included in these functions are system startup, file list, file copy, disk initialization, general maintenance, and log analysis. Most of the utility programs are executed under control of the Master Control Program II (MCPII), however, some of the utility programs are stand-alone programs.

General Features

The start-up programs load the system software and bring the system to an operable state.

The file list programs list files on the printer and list printer backup files previously spooled to disk or tape.

The copy programs copy disk files, tape files, cassette files, card files, and diskette files.

The disk initializer programs initialize disk packs and industry compatible mini disks (diskettes).

The general maintenance programs anlayze code files and initialized disk packs, allocate disk files, map disk packs, consolidate available space on disk packs, compare files, perform maintenance functions on indexed-sequential files, and other functions.

The log analysis programs analyze and print the SYSTEM/ELOG file, the SYSTEM/LOG file and the , SYSTEM/ODTLOG file. The log analysis programs also provide a compact analysis of the SYSTEM/LOG file, as well as converting the file to a format accessible by COBOL and RPG programs.

System Requirements

Central Processor:
B 1000 Systems with Cache Memory (except CMS B 1000 systems)

Primary Storage:
Minimum of 20KB (excluding Master Control Program requirements)

Peripherals:
Operator workstation
Line printer
Disk subsystem

System Software:
Master Control Program

Reference Material

B 1000 Systems System Software Operation Guide Volume 2 (form 1169091)

B 1000 Systems Memory Dump Analysis Functional Description Manual (form 1152055)

Product Support

Product Identification

Program Identification	Description	Code Form
CASSETTE/LOADER	Loads Files from Cassette Tape	Object Code
CASSETTE/MAKER	Writes Files to Cassette Tape	Object Code
CLEAR/START	Initializes B 1000 System	Object Code
CODE/ANALYZER	Analyzes Code Files	Object Code
COLDSTART/DISK	Loads System Files from Disk	Object Code
COLDSTART/TAPE	Loads System Files from Tape	Object Code
CONVERT/BACKUP	Converts Files for Page Printer	Object Code
CREATE/ISAM	Creates Indexed-Sequential Files	Object Code
CREATE/TABLE	Generates Translation Tables	Object Code
DC/AUDIT	Analyzes a Data Comm Audit File	Object Code
DISK/ALLOCATOR	Creates IAD Files	Object Code
DISK/DUMP	Copies Disk Packs	Object Code
DISKETTE/COPY	Copies Files to/from ICMD	Object Code
DISKPACK/INTERCHANG	Copies Disk Packs to/from Interchange Mode	Object Code
DMPALL	Media Conversion Utility	Object Code
FOREIGN/TAPECOPY	Copies/Lists Tapes	Object Code
GISMO/SA	Stand-Alone I/O Handler	Micro Code
INITIALIZE/ANALYZER	Analyzes Initialized Disks	Object Code
INPUT/PCS-TABLES	Printer Translation Table Input	Data File
INTRINSICS/ AGGR-MAKER	Binds Intrinsic Files	Object Code
LOGCONVERT	Reformats Log Information	Object Code
PACK/INIT	Initializes Disk Packs	Object Code
QWIKLOG	Analyzes Log File	Object Code
RD	Lists Systems Status Information on a Workstation	Object Code
RDCOPY	Remote Support Interface Program	Object Code
REMOTE/LISTER	Lists Files on a Workstation	Object Code
REMOTE/PRINT	Prints Backup Files on Remote Printers	Object Code
SDL/INTERPIN	Stand-Alone SDL Interpreter	Micro Code
SDL/SSC	SDL Stack Size Changer	Object Code
SDL2INTRIN/REMOVER	Change SDL2 Intrinsic File	Object Code
SSLOAD/MAKCAS	Creates Stand-Alone Cassettes	Object Code
STANDALONE/ DISK-DUMP	Copies Disk Packs	Object Code
SYSTEM/BACKUP	Prints/Punches Backup Files	Object Code
SYSTEM/BUILDTRAIN	Creates Printer Translation Tables	Object Code
SYSTEM/COMPARE	Compares Files	Object Code
SYSTEM/DISK-DUMP	Copies Disk Cartridges and Packs	Object Code
SYSTEM/DISK-INIT	Initializes Disk Cartridges and Packs	Object Code
SYSTEM/ELOGOUT	Analyzes Maintenance Log	Object Code

Product Identification

Program Identification	Description	Code Form
SYSTEM/FILE-INIT	Initializes Relative Files	Object Code
SYSTEM/ICMD-INIT	Initializes ICM Disks	Object Code
SYSTEM/IDA	Interactive System Dump Analyzer	Object Code
SYSTEM/IS-MAINT	Maintenance of ISAM Files	Object Code
SYSTEM/ISVERIFY	Checks Integrity of ISAM Files	Object Code
SYSTEM/LDCONTROL	Creates Pseudo Reader Files	Object Code
SYSTEM/LOAD-CAS	Reads Files from Cassette Tapes	Object Code
SYSTEM/LOGOUT	Analyzes System Log File	Object Code
SYSTEM/MAKEUSER	Creates System Usercode File	Object Code
SYSTEM/MARK-SEGS	Marks Code Segments	Object Code
SYSTEM/MLFIRMWARE	Diagnostic Multiline Firmware	Data File
SYSTEM/ODTLOGOUT	List Operator Workstation Log	Object Code
SYSTEM/PACKCOPY	Disk Backup Program	Object Code
SYSTEM/PACKCOPY-T	Disk Backup Tape Handler	Object Code
SYSTEM/SQUASH	Consolidates Disk Storage Areas	Object Code
SYSTEM/TRAINTABLE	Printer Translation Tables	Data File
TAPECOPY	Copies Magnetic Tape Files	Object Code