

P. SYSGEN

NAME @OSN

NO LIBRARY

Release 8403 - March, 1984

DDSK 2

CPU6 SYSTEM RELEASE

1. @SYS DOS 7.1C	Release Date	2/13/84
@LOAD	Release Date	2/10/84
S	Release Date	2/01/84
P	Release Date	2/10/84
CVT	Release Date	12/1/83
?	Release Date	1/11/84

The operating system has been modified for more and better use of transient memory through the use of shared files. A problem with the clock being slow has been resolved, and problems with auxiliary (remote) printers have been resolved.

WARNING

This is a major enhancement of the operating system which required changes in many of the supporting modules. As a result, it is not compatible with previous releases of the S, P, CVT and ? libraries, nor are the 7.0D and earlier versions compatible with the new release of these libraries. Consequently you must retain the previous versions until all customers are upgraded to the 7.1C system.

To assure that you have both versions, the previous versions are included in this release with "xxxx70" added to distinguish them from the current ones.

2. SYSGEN

A new system generation utility (XSGMAIN), which is invoked by the SYSGEN jobstream in the P library, has been written which is easier and more efficient to use. In order to use the 7.1C release, the new utility must be used. All existing configurations must be regenned before implementing the new opsys.

Note: See SYSGEN documentation for instructions on installation of the 7.1C operating system. The release pack includes skeleton configurations (1 partition, 1 CRT, 1 printer, disk drive) for Hawk (@OSNHAWK) and CMD (@OSNCMD) installations.

SYSGEN INSTALLATION PROCEDURES

Effective with release of the 7.1 operating system, systems **MUST** be configured with the new utility **P.SYSGEN**. Configurations generated with **P.OSCON** will not work. Also, **P.OSCON** must continue to be used for operating systems prior to 7.1.

It is suggested that before installation the installer should become thoroughly familiar with the new utility.

These procedures are necessary only on the first implementation of the new system. Installation of all future releases will simply be a copy of the **ESYS** and **ELOAD** files and reboot.

It is also suggested that the old system disk be backed up prior to installation.

Specific procedures suggested are:

1. Mount the transmittal pack (or other pack containing the new system) on disk unit zero.
2. Boot system in usual way with old operating system.
3. Configure your system into a new file on the transmittal pack with **P.SYSGEN**.
4. Set R/P switch to out position.
5. Depress **SELECT** button. If a "D=" PROM is installed, answer **H0 (OO for CMD system)**.
6. After the message, **DOS 7.nm - c**, respond to the **NAME=** prompt with the name of the file from step 3, to the **DISK=** prompt with the disk on which that file resides, and the **CODE=** prompt with **NEWLINE**.
7. After the message, **DOS 7.1 - n**, set the system disk to **0** and respond to subsequent prompts as usual.
8. Copy **ESYS**, **ELOAD**, **S** and any other system files to your usual system disk.
9. Delete **EOSN** the copy the new configuration into a new **EOSN** on the system disk.
10. Set R/P switch to in position and reboot in usual way.

The **XSGMAIN** system utility provides the user with a safe and simple method of generating and maintaining custom operating system configurations for the Centurion VI. Used in conjunction with the generation/loading procedures, generating operating systems becomes relatively easy. The system generation utility allows users with little technical expertise to generate configurations with confidence, yet is versatile enough for the most sophisticated uses. Most parameters are generated automatically from the code for the particular device configured. System checks prohibit entry of invalid parameters. A summary of the entire configuration and detail of each component is easily displayed.

NOTE: The utility is written to use the function keys on the Viewpoint 60 to control many of the operational features. If a configuration is generated from a console without this capability, Control-B, the corresponding number, and **NEWLINE** produces the same results. See Section III for a listing of these functions.

CONCEPT

The concept of this utility is to display the attributes of each component of the configuration on one of seven screens. Independent attributes - those which reflect a change in the configuration - are entered or edited by moving the cursor to the field for that attribute, then entering the new value or code. Dependent attributes - those which are dependent upon an independent attribute - include both default values which may be changed and absolute values which may not be changed. Fields for absolute dependent attributes are field protected; the cursor may not be moved to these fields.

The cursor may be moved by using the right, left, up and down arrows. Also, the tab key will move the cursor to the first position in the next unprotected field. Shift-tab (Viewpoint 60) will move the cursor back to the first position of the preceding unprotected field.

An attempt to move the cursor forward out of an independent attribute field with the arrow or tab keys, without entering a value or code, will generate an error message. An improper code will also generate an error message.

Function keys (see Section III) are used to exit a screen, to move to a different section of multi-section screens, and to delete entries.

BACK → BS

DOWN → LF

FORWARD

UP

CTRL-F
CTRL-L-Z

HOME CTRL-A
TAB CTRL-I

BACK TAB ESC)

Q

At least one partition, one disk drive and one console must be configured. An error message will display if the **END OF PROGRAM** option is selected without this minimum configuration.

Because procedures are essentially the same for creating and editing a configuration, a single section covers this process.

INITIALIZATION AND EDITING

OPERATION

1. The utility is called by entering:

P.SYSGEN

2. The CRT displays:

ENTER CONFIGURATION LIBRARY NAME OR "NEWLINE" FOR NO LIBRARY

Enter:

aaaaaaaaaa library containing the desired configuration table

NEWLINE if configuration table is a discrete file.

3. The CRT displays:

ENTER CONFIGURATION FILE NAME

Enter:

fname The C-type filename which will contain the configuration
data set

@COSN

4. The CRT displays:

ENTER DISK NUMBER OF CONFIGURATION

Enter:

2

d the disk unit number for the configuration set file

5. If the file exists but is not a 'C' type file, an error message will display and the utility will terminate. The CRT may display: (if not, go to Step 6)

FILE fname NOT FOUND ON DISKd
DO YOU WANT TO CREATE THIS FILE? (Y/N)

Enter one of the following:

- Y** to initialize fname on disk d. Go to step 6.
N to return to step 2.

6. The CRT will display the Main Menu (Figure 1) if the configuration exists. Select the desired option from this menu. If the configuration is being initialized, the System Constants screen will be displayed. Go to step 7.

SYSTEM CONSTANTS

7. The **SYSTEM CONSTANTS** screen (Figure 2) displays with the current values for system disk, time out value, power line frequency, sector holds per partition, and multiple processors. If the configuration is being initialized, the default values for these parameters are shown.

These values may be edited by positioning the cursor to the field and entering new values.

The screen also shows the number of devices configured. If the configuration is being initialized, these will all be zero.

When the system constants have been set as desired, depress the F4 function key. The utility will return to the main menu (step 6) or to the **PARTITIONS** screen (step 8) if the configuration is being initialized.

PARTITIONS

8. The **PARTITIONS** screen (Figure 3) displays the partition number, priority, disk defaults, number of job parameters, and maximum number of logical units for each partition.

To add a partition, move the cursor to the first blank line, enter the partition number, then **NEWLINE**. Default values for the partition will be entered by the utility.

To delete a partition, position the cursor on the line for that partition, then depress the F5 function key. The partition is deleted and the message "**** DELETED ****" will appear on the line.

To edit a partition, position the cursor to the field and enter the new value.

Partitions may be entered in any sequence although normally they will be entered sequentially. They will be sorted into numerical sequence by the utility.

When partition values have been set as desired, depress the **F4** function key. The utility will return to the main menu (step 6) or to the **MUX DEVICES SCREEN** (Step 9) if the configuration is being initialized.

MUX DEVICES

9. The **MUX DEVICES** or **MULTIPLEXOR** screen (Figure 4) displays the device type, description, name, address, and MCB for the device. Security code, ISR number and buffer length may be shown if applicable for the device and if used. Type, description and name for any auxiliary printers are also shown.

To add a device, enter the applicable code from Section III, then **NEWLINE**. Devices should be added in the sequence by which they will be plugged into the mux boards.

To delete a partition, position the cursor on the line for that device, then depress the **F5** function key. The device is deleted and the message, **"**** DELETED ****"** will appear on the line.

To edit a device, position the cursor to the field and enter the new value.

When the mux devices values have been set as desired, depress the **F4** function key. The utility will return to the main menu (step 6) or to the **DISK DRIVES** screen (step 10) if the configuration is being initialized.

DISK DRIVES

10. The **DISK DRIVES** screen (figure 5) displays the disk type, description, name, address and code of each disk drive.

To add a disk, enter the disk code (see Section III). Default values for the disk will be entered by the utility.

To delete a disk, position the cursor on the line for that disk, then depress the **F5** function key. The cursor must be positioned on the line containing the disk type. (Additional lines, without the disk type, will be created for all disk drives involving multiple platters.) The disk is deleted and the message "**** DELETED ****" will appear on all lines related to that drive.

To edit a disk, position the cursor to the field and enter the new value.

Disks may be entered in any sequence. When they are sorted and displayed, they will be displayed in **ADDRESS** sequence, which normally will not be in disk number sequence.

When the disk values have been set as desired, depress the **F4** function key. The utility will return to the main menu (step 6).

PRINTERS/SPOOLERS

11. The **PRINTERS/SPOOLERS** screen must be entered from the main menu. The screen displays the printer type, description, name and address for parallel printers only. Mux-driven printers are displayed on the **MIX DEVICES** screen. The screen displays the spooler name, disk and spool file name for spoolers.

To add a printer, enter the printer type code (see Section I). The default values for the printer will be entered by the utility.

To delete a printer, position the cursor on the line for that printer, then depress the **F5** function key. The printer is deleted and the message "**** DELETED ****" will appear on the line.

To edit a printer, position the cursor to the field and enter the new value.

To move to the spooler section of the screen, depress the **F1** function key.

To add a spooler, enter any non-blank character and **NEWLINE**. Default values of the spooler will be entered by the utility.

To delete a spooler, position the cursor on the line for that spooler and depress the **F5** function key. The spooler is deleted and the message "****
DELETED ****" will appear on the line.

To edit a spooler, position the cursor to the field and enter the new value.

To return to the printer section of the screen, depress the **F1** function key.

When the printer and spooler values have been set as desired, depress the **F4** function key. The utility will return to the main menu (step 6).

TAPE/BISYNC/SPECIAL

12. The **TAPE/BISYNC/SPECIAL UNITS** screen displays the tape type, description, name and address for tape units; the **BISYNC** type and name for **BISYNC** units; and the name, address, select code, driver name, initialization routine name and pub size for special units. This screen can be entered only from the main menu.

To add a tape unit, enter the tape type code (see Section I). Default values for the tape unit will be entered by the utility.

To delete a tape unit, position the cursor on the line for that unit, then depress the **F5** function key. The tape unit is deleted and the message "**** **DELETED** ****" will appear on the line.

To edit a tape unit, position the cursor to the field and enter the new value.

To move to another section of the screen, depress the **F1** function key once to move to the **BISYNC** unit, enter "B" for **BISYNC** type, then **NEWLINE**. The default name will be entered by the utility.

To delete a **BISYNC** unit, position the cursor on the line for the unit, then depress the **F5** function key. The unit is deleted and the message, "**** **DELETED** ****" will appear on the line.

To edit the BISYNC unit, position the cursor to the name field and enter the desired name. Only the name may be edited. There may be only one BISYNC unit on a system.

To move to another section of the screen, depress the F1 function key once to move to the special units section and twice to move to the tape units section.

To add a special unit, enter any non-blank character for the name, then NEWLINE. Default values for the special unit are entered by the utility. A driver name must be entered.

To delete a special unit, position the cursor on the line for that unit, then depress the F5 function key. The unit is deleted and the message "***** DELETED *****" will appear on the screen.

To edit a special unit, position the cursor to the field and enter the new value.

To move to a different section of the screen, depress the F1 function key once to move to the tape section and twice to move to the BISYNC section. When values have been set as desired, depress the F4 function key. The utility will return to the main menu (step 6).

SALUTATION MESSAGES

13. The SALUTATION MESSAGES screen may be entered only from the main menu. This screen displays the salutation messages. Up to fifteen lines of messages may be entered, but no intervening blank lines are permitted. If no salutation messages have been composed, the screen will be blank except for the screen heading itself.

To add, edit or delete messages, enter/edit the desired text on the screen. When the messages have been set as desired, depress the F4 function key. The utility will return to the main menu (step 6).

NOTE: Although blank lines may not be entered in the create mode, they may be established in the edit mode by blanking the characters in a previously entered line.

END OF PROGRAM

14. Selection of the **END OF PROGRAM** option (option 9) from the menu will cause the configuration to be written out to the file. The configuration will only be written out if it is valid. If the utility is exited with **CONTROL-C**, the configuration will be unchanged. An error message will display if the configuration does not include at least one partition, one disk drive, and one console.

15. The CRT displays:

DO YOU WANT A LISTING OF THE CONFIGURATION FILE? (Y/N)

Enter:

Y If you want a listing of the configuration. Go to Step 16.

NOTE: If you only want a listing of an existing configuration, you may enter **P.SYSGEN PRINT** when invoking the utility. The utility will then go directly from Step 4 to Step 16, bypassing the configuration steps.

N If you do not want a listing.

16. The CRT displays:

ENTER PRINT DEVICE NAME

Enter the full name (PRTn) of the print device. The listing is printed on the device specified.

17. The CRT finally displays:

END OF PROGRAM
.USE CRIn FOR SYSDR

FUNCTION KEYS AND DEVICE CODES

FUNCTION KEYS

- F1** Causes the cursor to advance to the next section of a multi-section screen, or to the next page if a screen overflows.
- F2** Operates similarly to the F1 key.
- F4** Causes an exit from a screen either to the main menu or to the next sequential screen.
- F5** Causes the line on which the cursor is positioned to be deleted.

MUX DEVICES

CONSOLES (CRTs)

- C1** Control Data
- C2** Hazeltine
- C3** Hazeltine/KOMPOZ
- C4** LA-36
- C5** Adds 920
- C6** Adds 580
- C7** Adds 520
- C8** Regent 100
- C9** Regent 40
- C10** Viewpoint A1 \$900
- C11** Viewpoint 60
- C12** Viewpoint color

MUX DRIVEN PRINTERS

- P1** Not Used
- P2** Not Used
- P3** TI 810
- P4** Diablo
- P5** Okidata
- P6** M200
- P7** LA-36 (No keyboard)

AUXILIARY PRINTERS

A1 Not Used
A2 Not Used
A3 TI 810
A4 Diablo
A5 Not Used
A6 M200
A7 Not Used

DISK DRIVES

D1 Hawk, 2-platter
D2 Pertec, 4-platter
D3 Pertec, 3-platter
D4 Falcon, 2-platter
D5 Falcon, 1-platter
D6 Floppy, single-sided, old
D7 Floppy, double-sided, old
D8 CMD 96-megabyte (6-platter)
D9 CMD 64-megabyte (4-platter)
D10 CMD 32-megabyte (2-platter)
D11 Finch
D12 Wren
D13 Floppy, single-sided, new
D14 Floppy, double-sided, new

PARALLEL PRINTERS

P10 Centronics
P11 Data Printer
P12 CDC 9322
P13 ODEC
P14 B300/B600 Upper Case Only
P15 B300/B600 Upper Case/lower case
P16 CDC 93xx Upper Case Only
P17 CDC 93xx Upper Case/lower case

FUNCTION KEYS & DEVICE CODES
Section III

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TAPE UNITS

- T1** Streamer
- T2** Mag Tape

BISYNC

- B** BISYNC

SYSTEM CONSTANTS

Time Out Value

Range: 0-65535. This is the number of seconds of inactivity that will pass before the system will sign-off partitions. Entries of 0 or 65535 will cause the word "NONE" to appear in the field and the sign-off feature is disabled.

Sector Holds
per Partition

Range: 0-127. The sector hold table determines the number of file "holds" that may be active on the system at any one time. The total is equal to the product of this entry times the number of partitions configured.

PARTITIONS

Priority

Range: 0-127

The system parameters D, L, T and W are available for use at the programmer's discretion. A possible structure is L for libraries, T for temporary files, W for work files. D (or DD) is the familiar default disk parameter.

Number of Job
Parameters

Range 0-255: However, only parameters 0-9 may be referenced through JCL. Others must be referenced with the APLIB subroutines GETJP and PUTJP.

Max number of
Logical Units

Range 0-255: These are the programmer logical units, SYSnnn.

MULTIPLEXOR

Address

Address refers to the ports on the MUX boards. On the first MUX, addresses are: F200, F202, F204, and F206; on the second: F210, F212, F214, F216; on the third: F220, F222, F224, F226: etc.

MOB

This value controls the parity and baud rate at which the device will operate. Valid entries are:

PARITY >>>	NONE	EVEN	ODD
Baud Rate			
300	86	69	68
600	-	5	-
1200	118	101	100
2400	150	133	132
4800	182	165	164
9600	214	197	196

Security Code

Range 1-6 alphanumeric characters. This is the security code to sign on a console.

ISR Number

Interrupt service routines (ISR) are specially written routines which are used for special types of multiplexor driver devices. At present, there are no Centurion supported ISRs.

Buffer Length

Range 0-2048; 0 will be unbuffered.

ISK DRIVES

Code

Range 0-65535; 100 is no code.

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CPU-6
SYSTEM GENERATION UTILITY
USER MANUAL
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SYSGEN UTILITY

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SYSGEN UTILITY
User Manual
Installation Procedures

Centurion Computer Corporation
Richardson, Texas

Printed in USA

SYSGEN INSTALLATION PROCEDURES

Sysgen for the Centurion VI is a major step towards versatility and support of Centurion systems. However, the new loader and operating system is incompatible with the old loader and IPL method. It is suggested that before installation, the installer should become thoroughly familiar with the SYSGEN documentation and the following installation procedures. These procedures are necessary only on the first implementation of the new system. Installation of all future releases will simply be a copy of the @SYS file and re-boot. It is also suggested that the old system disk be backed-up previous to installation.

1. Mount SYSGEN release pack on disk unit zero.
2. Set R/F switch to removable (button out).
3. Depress LOAD OPSYS. If a "D=" PROM is installed, answer H0.
4. The release system will now IPL. The new IPL method requires a few more seconds to complete so please be patient.
5. After the messages:

DOS 6.2 - A

MAX DISK = n SYSTEM DISK = 0

Depress NEWLINE and complete IPL as usual.

6. After the IPL is complete, set the security code for the fixed disk if necessary.
7. Delete the following files from the fixed disk if present:
 - A. @JXLIB
 - B. @TXLIB
 - C. @PDLIB
 - D. @BASIC
 - E. XSPPOOL
8. Create the system @SYS file with:

.NEW @SYS ON 1 'L' 32T,FSI=32T

9. Copy @SYS from 0 to 1 with:

S.COP @SYS 0 1

10. Copy @LOAD from 0 to 1 with:

S.COPN @LOAD 0 1

11. Write new IPL track with:

.WIPLT 1

12. Create a configuration data set for your in-house machine with P.OSCON. If desired, this can be done by copying @OSN from 0 to 1 and using P.OSCON to modify @OSN on 1 to match the desired configuration. Otherwise, a new configuration set can be created with P.OSCON.

13. Load the configuration created in previous step with LOAD OPSYS if named @OSN, or with SELECT if other filename.

14. Create configuration data sets for all Centurion VI customers.

15. Repeat steps 1 through 11 at each customer site. Then copy the appropriate configuration set to the customer's system disk and re-boot.

Future system releases will be simple to install. Just copy the file @SYS from the release pack to the system disk and re-boot. No re-gen or re-configuration is necessary until the hardware configuration of the customer's machine changes.

Please note that there is also new S,P,?,CVT libraries on the SYSGEN release pack. These also should be installed by normal methods but are not required for the conversion to the SYSGEN system.

As usual, if assistance is required, feel free to call Centurion Software Support for additional information or problem resolution.

SYSGEN UTILITY

User Manual

Introduction

Centurion Computer Corporation
Richardson, Texas

Printed in USA

Introduction

The XOSCON system utility provides the user with a safe and simple method of generating and maintaining custom operating system configurations for the Centurion VI. Used in conjunction with the new generation/loading procedures, generating operating systems becomes a relatively easy process. The system generation utility allows users with little technical expertise to generate configurations with confidence, yet is versatile enough for the most sophisticated uses.

Most of the parameters solicited by XOSCON may be defaulted. That is, by simply entering "NEWLINE", XOSCON will substitute an appropriate value which may be changed if desired. For most uses, defaulting is recommended. However, if the user wishes to enter his own values, minimum and maximum values are given throughout this manual.

For all physical devices, XOSCON will allow the setting of the controller address and select code. However, it is highly suggested the defaults (answer "NEWLINE") be used as XOSCON will correctly assign controller addresses at validation time. When one becomes familiar with Centurion controller addresses, this ability to modify addresses can be useful, but extreme caution must be used.

The operation portion of this manual is divided into two sections: Initialization and Editing. The initialization section is intended as a step-by-step tutorial, while the editing section is designed as a reference guide.

SYSGEN UTILITY

User Manual

Initialization

**Centurion Computer Corporation
Richardson, Texas**

Printed in USA

SECTION II
INITIALIZATION

OPERATION

1. The SYSGEN utility is called by entering:

P.OSCON

2a. CRT displays:

ENTER CONFIGURATION DATA SET LIBRARY OR "NEWLINE"
IF NO LIBRARY

Enter:

aaaaaaaaaaa library containing the
desired configuration table

NEWLINE if configuration table is a
discrete file

2b. CRT displays:

ENTER CONFIGURATION SET FILE NAME

Enter:

fname a binary file name which may or may not
already exist which will contain the final
configuration data set

3. CRT displays:

ENTER DISK NUMBER FOR CONFIGURATION

Enter:

d the disk unit number of the configuration
set file name

4. CRT may display: (if not, go to SECTION III- EDITING)

FILE fname NOT FOUND ON DISKd
DO YOU WISH TO CREATE? (Y/N)

Enter one of the following:

Y to initialize name on disk d. Go to step 5.

N initialization of fname will not be done.
Go to step 2.

If the configuration data set, assigned to SYS1, is empty or invalid, XOSCON will solicit the initial configuration.

SYSTEM DISK

5. CRT displays:

ENTER SYSTEM DISK NUMBER

Enter one of the following:

0-32 number of the system disk

NEWLINE system defaults to disk 1

CONSOLE TIME LOCK

6. CRT displays:

ENTER CONSOLE TIME LOCK (IN SECONDS)

Enter one of the following:

0-65534 the amount of time of inactivity that will pass before the system will sign-off partitions

NEWLINE system defaults to no time lock

MAXIMUM LOGICAL UNIT

7. CRT displays:

ENTER MAXIMUM LOGICAL UNIT NUMBER

Enter one of the following:

0-79 the maximum "SYS" number

newline system defaults to 15

POWER LINE FREQUENCY

This is used to specify the frequency of the power being input to the computer. This is necessary for the clock on the CPU to keep proper time. U.S. standard is 60 cycles per second (Hertz) while most European countries use 50 Hertz.

8. CRT displays:

ENTER POWER LINE FREQUENCY IN HERTZ (CYCLES PER SECOND)

Enter one of the following:

1-120 Note: 0 is an invalid option

NEWLINE Default=60

SECTOR HOLDS PER PARTITION

The sector hold table determines the number of file "holds" that may be active on the system at any one time. For example, if there are 2 sector holds per partition in a 5 partition system, then 2 x 5 or 10 "holds" may be active at any one time by the application programs.

9. CRT displays:

ENTER THE NUMBER OF SECTOR HOLDS PER PARTITION

Enter one of the following:

0-127 Note: if 0 is entered, "holds" cannot be done

NEWLINE Default = 4

SALUTATION MESSAGES

10. XOSCON will then clear the CRT screen and solicit salutation messages by displaying:

ENTER MESSAGE NUMBER OR 99 IF FINISHED

Enter one of the following:

n+1 to enter a new line. Go to step 11.

1-2 to re-enter an existing line. Go to step 11.

99 to end processing. Go to step 12.

11. CRT displays:

ENTER SALUTATION MESSAGE

Enter 1-80 characters of text followed by "NEWLINE". This text will appear on the screen when the system IPL's. Generally, the salutation message(s) describe information about the system such as CPU type, number of partitions, disk types, printer types, etc. Go to step 10.

PARTITIONS

12. CRT displays:

PARTITION Pn

ENTER PRIORITY

Enter one of the following:

0-127 priority required for displayed partition

NEWLINE system defaults to priority 0

13. CRT displays:

ENTER DEFAULT DISK NUMBER

Enter one of the following:

0-32 disk unit number to be default disk for partition Pn

NEWLINE system defaults to disk 1

14. CRT displays:

ENTER NUMBER OF JOB PARAMETERS

Enter one of the following:

0-10 the number of job control language parameters for partition Pn

NEWLINE system defaults to 10.

15. CRT displays:

ENTER MAXIMUM LOGICAL UNIT NUMBER

Enter one of the following:

O-n the maximum job control language "SYS" number, where 'n' is the system maximum logical unit number entered in step 7.

NEWLINE system defaults to 15

16. CRT displays:

ARE ALL PARTITIONS DEFINED?

Enter one of the following:

Y if all system partitions have been defined. Go to step 17

N if more partitions must be defined. Go to step 12.

DISK VOLUMES

17. CRT displays:

DISKn

ENTER DISK UNIT NAME

Enter one of the following:

dname any 1-6 character name

NEWLINE system defaults to DISKn

18. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

- O-FEFO a hexadecimal memory location. The memory location through which the disk controller board is accessed is dependent on the disk type.
- NEWLINE system defaults to [TBR] 'to be resolved' at configuration validation time.

19. CRT displays:

ENTER SELECT CODE

Enter one of the following:

- 0-127 select code used to distinguish multiple units with the same controller address. The code used is dependent on the disk type.
- NEWLINE system defaults to [TBR] 'to be resolved' at configuration validation time.
- NOTE: If the controller address was entered at step 18, the select code must be entered.

20. CRT displays:

ENTER TYPE

Enter one of the following:

- P Pertec disk drive
H single Hawk/Falcon/Pertec fixed disk
F dual Falcon fixed disks
S single-sided flexible disk
D dual-sided flexible disk
C CMD/SMD/MMD fixed disk
W Winchester (Finch)
NEWLINE system defaults to type 'H'

21. CRT displays:

ENTER DISK UNIT NUMBER

Enter one of the following:

0-32 unit number of the disk volume

NEWLINE system defaults to 'n' where 'n' is the
 number of disk units defined presently
 minus one.

The unit number is used to identify the disk volume.
For example, in Job Control Language the statement:

.USE file ON d FOR SYSn

d is the disk unit number.

22. CRT displays:

ENTER DEFAULT CODE

Enter one of the following:

0-65534 disk security code

NEWLINE system defaults to code 100-NO CODE

23. CRT displays:

ARE ALL DISKS DEFINED?

Enter one of the following:

Y if all disks have been defined. Go to
 step 24.

N if more disks must be defined. Go to
 step 17.

CONSOLES

24. CRT displays:

ENTER CONSOLE NAME

Enter one of the following:

name a 1-6 character console unit name

NEWLINE system defaults to CRTn

25. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

0-FFEO a hexadecimal memory location. The memory location is the address in which the multiplexer board is accessed by the operating system.

NEWLINE system defaults to [TBR] 'to be resolved' at configuration validation time

26. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 select code used to distinguish multiple units with the same controller address

NEWLINE system defaults to [TBR] 'to be resolved' at configuration validation time

NOTE: If the controller address was entered at step 25, the select code must be entered.

27. CRT displays:

ENTER CONSOLE UNIT NUMBER

Enter one of the following:

0-48 unit number used to identify the console

NEWLINE system defaults to the number of console units defined minus one.

28. CRT displays:

ENTER SECURITY CODE

Enter one of the following:

xxxxxx a 1-6 alphanumeric code

NEWLINE system defaults to no code

29. CRT displays:

ENTER SCREEN SIZE

Enter one of the following:

0-127 number of lines the CRT will support

NEWLINE system defaults to 24

30. CRT displays:

ENTER PREDRIVER NUMBER

Enter one of the following:

0 predriver for CDC console

1 predriver for ADDS 520/580

2 predriver for ADDS 920

3 predriver for ADDS R40/R100

4 predriver for LA-36

5 predriver for Hazeltine

6 predriver for Hazeltine (with KOMPOZ underlining)

NEWLINE system defaults to predriver 1 (an ADDS 520/580)

Predrivers make CRT models Centurion compatible.

31. CRT displays:

ENTER MULTIPLEXER CONTROL BYTE (MCB)

Enter one of the following:

0-255 the parity and baud rate at which the console will operate. The standard values are:

Parity:	None	Even	Odd
Baud Rate:			
300	86	69	68
600	-	5	-
1200	118	101	100
2400	150	133	132
4800	182	165	164
9600	214	197	196

NEWLINE system defaults to 197 (Centurion standard: 9600 baud, even parity)

32. CRT displays: **ENTER ISR**

Enter one of the following:

0-10 ISR for CRTn

NEWLINE system defaults to no ISR

Interrupt service routines (ISR) are specially written routines which are used for special types of multiplexer driver devices. At present, there are no Centurion supported ISRs.

32a. CRT displays:

Enter CRT buffer size

Enter one of the following:

1-120 this number will be rounded up to a multiple of 8 and will be the size of the CRT type-a-head buffer.

NEWLINE for no CRT buffer.

33. CRT displays:

ARE ALL CONSOLES DEFINED?

Enter one of the following:

Y if all consoles have been initialized. Go to step 34.

N If more consoles must be defined. Go to step 24.

PRINTERS

34. CRT displays:

Enter one of the following:

Y to initialize printers. Go to step 35.

N if no printers are to be defined. Go to step 41.

35. CRT displays:

PRTn

ENTER PRINTER NAME

Enter one of the following:

name a 1-6 character alphanumeric printer unit name

NEWLINE system defaults to PRTn

36. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

0-FFEO a hexidecimal memory location. The controller address is the memory location through which the printer controller board will access the printer. The address varies according to printer type.

NEWLINE system defaults to [TBR] 'to be resolved' at configuration validation time.

37. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 select code used to distinguish multiple units

NEWLINE system defaults to [TBR] 'to be resolved' at configuration validation time

NOTE: If the controller address was entered at step 36, the select code must be entered.

38. CRT displays:

ENTER TYPE

Enter one of the following

0	type 0: Dumb Centronics (old)
1	type 1: Data printer
2	type 2: CDC 9322
3	type 3: CDC 9315-17-18 CDC 9386
4	type 4: ODEC data 100
5	type 5: CDC 9316-17-18 (upper/lower case)
6	type 6: TI810
7	type 7: Dataproducts B300/B600 Upper case only
8	type 8: Dataproducts B300/B600 Upper/lower case
9	type 9: Diablo
R	remote printer
H	remote printer with Hazeltine CRT
D	remote Diablo printer
A	Okidata Printer
NEWLINE	system defaults to type 4

39. CRT displays: (if not, go to step 40)

ENTER CONSOLE UNIT NUMBER

Type 'R' or 'H' or 'D' was selected at step 38. Enter the console unit to which the remote printer will be connected. The console will be displayed as the controller address. System default is CRTO.

40. CRT displays:

ARE ALL PRINTERS DEFINED?

Enter one of the following:

Y if printers have been defined. Go to step 41.

N if more printers must be initialized.
Go to step 35.

SPOOLERS

41. CRT displays:

ARE ANY SPOOLERS REQUIRED?

Enter one of the following:

Y to initialize spoolers. Go to step 42.

N if no spoolers needed. Go to step 46.

42. CRT displays:

PRTQ

ENTER SPOOLER NAME

Enter one of the following:

name a 1-6 character spooler name

NEWLINE system defaults to PRTQ and to PRTQn
thereafter

43. CRT displays:

ENTER SPOOL FILE NAME

Enter one of the following:

name a 1-21 character file name

NEWLINE system defaults to @spool, and @SPOOLn
thereafter

44. CRT displays:

ENTER DISK VOLUME FOR SPOOL FILE

Enter:

0-32 disk number on which the spool file will reside

NEWLINE system defaults to specified system disk

45. CRT displays:

ARE ALL SPOOLERS DEFINED?

Enter one of the following:

Y if spoolers have all been initialized.
Go to step 46.

N if more spoolers must be defined. Go to
step 42

SPECIAL UNITS

46. CRT displays:

ARE ANY SPECIAL UNITS REQUIRED?

Enter one of the following:

Y to initialize a non-Centurion supported
device. Go to step 47. .

N if no special units are required. Go to
step 54.

47. CRT displays:

UNITn

ENTER SPECIAL UNIT NAME

Enter one of the following:

name a 1-6 character unit name

NEWLINE system defaults to UNITn

48. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

0-FFEO a hexidecimal memory location

NEWLINE system defaults to F000

49. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 select code of the special unit to distinguish between multiple units

NEWLINE system defaults to 0

50. CRT displays:

ENTER DRIVER ROUTINE NAME

Enter a 1-21 character filename of the program to be used as the physical I/O driver for the special unit. There is no default.

CAUTION: it is the user's responsibility to supply the correct device driver routine.

51. CRT displays:

ENTER INITIALIZATION ROUTINE NAME

Enter the 1-21 character filename of the program which will initialize special unit UNITn. Default is no initialization.

52. CRT displays:

ENTER PHYSICAL UNIT BLOCK SIZE

Enter one of the following:

0-127 PUB size in operating system

NEWLINE DEFAULT = 24

53. CRT displays:

ARE ALL SPECIAL UNITS DEFINED?

Enter one of the following:

Y if all necessary special units have been initialized. Go to step 54.

N if more units must be defined. Go to step 47.

54. Initialization of the SYSGEN utility is complete.
Proceed to Section III-EDITING.

SYSGEN UTILITY

User Manual

Editing

Centurion Computer Corporation
Richardson, Texas

Printed in USA

SECTION III

EDITING

After initialization or if the configuration data set is valid, XOSCON displays the SYSGEN menu.

1. CRT displays:

XOSCON-SYSTEM-CONFIGURATION UTILITY

(01)	DESK CABINET	YES/NO
(02)	SYSTEM DISK	n
(03)	CONSOLE TIME LOCK IN SECONDS	n/NONE
(04)	MAXIMUM LOGICAL UNIT NUMBER (SYS)	n
(05)	POWER LINE FREQUENCY IN HERTZ	n
(06)	SECTOR HOLDS PER PARTITION	n
(07)	SALUTATION MESSAGES	n
(08)	PARTITIONS	n
(09)	DISK VOLUMES	n
(10)	CONSOLES	n
(11)	PRINTERS	n
(12)	SPOOLERS	n
(13)	COMMUNICATIONS LINES	n
(14)	TAPE UNITS	n
(15)	SPECIAL UNITS	n
(98)	VALIDATE/WRITE CONFIGURATION	
(99)	END PROCESSING	

ENTER OPTION NUMBER

Enter one of the following:

- 1 to determine which Centurion model the configuration is to be used with. Go to step 2.
- 2 to enter system disk number. Go to step 3.
- 3 to enter time lock. Go to step 4.
- 4 to maximum logical unit number. Go to step 5.
- 5 to enter power line frequency that will be supplied to the computer. Go to step 54.
- 6 to enter the number of sector holds per partition. Go to step 55.

- 7 to display/enter salutation messages.
Go to step 6.
- 8 to display partition parameters. Go to
step 8.
- 9 to display disk parameters. Go to step
14.
- 10 to display console parameters. Go to step
22.
- 11 to display printer parameters. Go to
step 33.
- 12 to display spooler parameters. Go to
step 39.
- 13 to display communications lines. Go to
step 58.
- 14 to display parameters of special units.
Go to step 44.
- 15 to validate configuration. Go to step
53.
- 99 to terminate. Go to step 56.

CABINET SPECIFICATION

2. CRT displays:

IS THIS CONFIGURATION FOR A DESK CABINET MODEL?

Enter one of the following:

Y or + if for desk cabinet model

N or - if not for desk cabinet model

Return to step 1.

SYSTEM DISK

3. CRT displays:

ENTER SYSTEM DISK NUMBER

Enter one of the following:

0-n where 'n' = number of disk volumes

NEWLINE DEFAULT = 1

Return to step 1.

CONSOLE TIME LOCK

4. CRT displays:

ENTER CONSOLE TIME LOCK (IN SECONDS)

Enter one of the following:

0-65534 the amount of time of inactivity that will pass before the system will sign-off partitions

NEWLINE DEFAULT = no console time lock

Return to step 1.

MAXIMUM LOGICAL UNIT

5. CRT displays:

ENTER MAXIMUM LOGICAL UNIT NUMBER (SYS#)

Enter one of the following:

0-79 the maximum "SYS" number

NEWLINE DEFAULT = 15

Return to step 1.

SALUTATION MESSAGES

6. Screen is cleared and the salutation messages, if any, are displayed. CRT then displays:

ENTER MESSAGE NUMBER OR 99 IF FINISHED

Enter one of the following:

l-n to re-enter an existing line. Go to step 7.
n+1 to enter a new line. Go to step 7.
99 end processing. Return to step 1.

7. CRT displays:

ENTER SALUTATION MESSAGE

Enter 1-80 characters of text followed by "NEWLINE". The salutation message(s) will be displayed.

Return to step 6.

PARTITIONS

8. CRT displays:

ENTER PARTITION NUMBER OR 99 IF NEW PARTITION

Enter one of the following:

0-(n) to edit an existing partition, where 'n' is the number of partitions presently defined minus one. Go to step 9.
NEWLINE DEFAULT = 0
99 to create a new partition. (See Initialization).

9. CRT displays:

PARTITION Pn	
(01) PRIORITY	n
(02) DEFAULT DISK	n
(03) NUMBER OF JOB PARAMETERS	n
(04) MAXIMUM LOGICAL UNIT NUMBER (SYS#)	n
(91) DELETE PARTITION	
ENTER PARAMETER NUMBER OR 99 IF FINISHED	

Enter one of the following:

- 1 to change partition priority. Go to step 10.
- 2 to change partition default disk. Go to step 11.
- 3 to change number of job parameters for partition. Go to step 12.
- 4 to change maximum logical unit number. Go to step 13.
- 91 to delete partition displayed. Go to step 1.
- 99 to terminate. Return to step 1.

10. CRT displays:

ENTER PRIORITY

Enter one of the following:

0-127 priority for displayed partition.

NEWLINE DEFAULT = 0

Return to step 9.

11. Crt displays:

ENTER DEFAULT DISK NUMBER

Enter one of the following:

0-32 disk unit number to be default disk for displayed partition

NEWLINE DEFAULT = currently defined system disk

12. CRT displays:

ENTER NUMBER OF JOB PARAMETERS

Enter one of the following:

0-10 number of job control language
parameters for displayed partition

NEWLINE DEFAULT = 10

Return to step 9.

13. CRT displays:

ENTER MAXIMUM LOGICAL UNIT NUMBER

Enter one of the following:

0-n where 'n' is the maximum logical unit
number of the system

NEWLINE DEFAULT = 15

Return to step 9.

DISK VOLUMES

14. CRT displays:

ENTER DISK UNIT NAME OR "NEW" IF NEW DISK

Enter one of the following:

dname a valid existing disk unit name. Go to
step 15.NEW to create a new disk volume. (See
Initialization)

15. CRT displays:

(01) DISK UNIT NAME	dname
(02) CONTROLLER ADDRESS	hhhh/[TBR]
(03) SELECT CODE	n/[TBR]
(04) TYPE	t
(05) UNIT NUMBER	n
(06) DEFAULT CODE	n
(91) DELETE DISK VOLUME	

ENTER PARAMETER NUMBER OR 99 IF FINISHED

Enter one of the following:

- 1 to change disk unit name. Go to step 16.
- 2 to change controller address. Go to step 17.
- 3 to change select code. Go to step 18.
- 4 to change disk type. Go to step 19.
- 5 to change disk unit number. Go to step 20.
- 6 to change disk security code. Go to step 21.
- 91 to delete disk unit displayed. Go to step 1.
- 99 to terminate. Return to step 1.

16. CRT displays:

DISKn

ENTER DISK UNIT NAME

Enter one of the following:

dname a 1-6 character unit name

NEWLINE DEFAULT = DISKn

Return to step 15.

17. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

O-FFEO a hexadecimal memory location

NEWLINE DEFAULT = [TBR] 'to be resolved' by
XOSCON at configuration validation time

Return to step 15.

18. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 code used to distinguish multiple units
with the same controller addressNEWLINE DEFAULT = [TBR] 'to be resolved' by
XOSCON at configuration validation time

Return to step 15.

19. CRT displays:

ENTER TYPE

Enter one of the following:

P	Pertec disk drive
H	single Hawk/Falcon/Pertec fixed disk
F	dual Falcon fixed disks
S	single-sided flexible disk
D	dual-sided flexible disk
C	CMD/SMD/MMD fixed disk
W	Winchester (Finch)
NEWLINE	DEFAULT = H

Return to step 15.

20. CRT displays:

ENTER DISK UNIT NUMBER

Enter one of the following:

0-32 unit number of the disk volume

NEWLINE DEFAULT = n+1, where 'n' is the number
of disk units presently defined.

Return to step 15.

21. CRT displays:

ENTER DEFAULT CODE

Enter one of the following:

0-65534 disk security code

NEWLINE DEFAULT = 100 (no security code)

Return to step 15.

CONSOLES

22. CRT displays:

ENTER CONSOLE NAME OR "NEW" IF NEW CONSOLE

Enter one of the following:

cname a valid existing CRT name. Go to step
23.NEW to create a new console unit. (See
Initialization).

23. CRT displays:

(01) CONSOLE NAME	cname
(02) CONTROLLER ADDRESS	hhhh/[TBR]
(03) SELECT CODE	n/[TBR]
(04) UNIT NUMBER	n
(05) SECURITY CODE	code/NONE
(06) SCREEN SIZE	n
(07) PREDRIVER	n
(08) MCB	n
(09) ISR	n/NONE
(91) DELETE CONSOLE	

ENTER PARAMETER NUMBER OR 99 IF FINISHED

Enter one of the following:

- 1 to change console unit name. Go to step 24.
- 2 to change controller address. Go to step 25.
- 3 to change select code. Go to step 26.
- 4 to change console unit number. Go to step 27.
- 5 to change security code. Go to step 28.
- 6 to change console screen size. Go to step 29.
- 7 to change console predriver number. Go to step 30.
- 8 to change console multiplexer control byte. Go to step 31.
- 9 to change console interrupt service routine. Go to step .
- 91 to delete console displayed. Return to step 1.
- 99 to terminate. Return to step 1

24. CRT displays:

ENTER CONSOLE NAME

Enter one of the following:

cname a 1-6 character console unit name

NEWLINE DEFAULT = CRTn

Return to step 23.

25. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

0-FFEO a hexadecimal memory location

NEWLINE DEFAULT = [TBR] 'to be resolved' by
XOSCON at configuration validation time

Return to step 23.

26. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 code used to distinguish multiple units
with the same controller addressNEWLINE DEFAULT = [TBR] 'to be resolved' by
XOSCON at configuration validation time

Return to step 23

27. CRT displays:

ENTER CONSOLE UNIT NUMBER

Enter one of the following:

0-48 number to identify console unit

NEWLINE DEFAULT = n+1, where 'n' is the number
of console units presently defined minus
one.

Return to step 23.

28. CRT displays:

ENTER SECURITY CODE

Enter one of the following:

code a 1-6 alphanumeric code

NEWLINE DEFAULT = no code

Return to step 23.

29. CRT displays:

ENTER SCREEN SIZE

Enter one of the following:

0-127 number of lines the CRT will support

NEWLINE DEFAULT = 24

Return to step 23.

30. CRT displays:

ENTER PREDRIVER NUMBER

Enter one of the following:

0-6 predriver number for CRT displayed

NEWLINE DEFAULT = 1

Return to step 23

31. CRT displays:

ENTER MULTIPLEXER CONTROL BYTE (MCB)

Enter one of the following:

0-255 parity/baud rate at which the console unit will operate.
The standard MCB values are:

Parity:	None	Even	Odd
Baud Rate:			
300	86	69	68
► 600	-	5	-
1200	118	101	100
2400	150	133	132
4800	182	165	164
9600	214	197	196

NEWLINE Default = 197 - Return to step 23.

32. CRT displays:

ENTER ISR NUMBER

Enter one of the following:

0-10 interrupt service routine for CRTn

NEWLINE Default = no ISR

Return to step 23.

PRINTERS

33. CRT displays:

ENTER PRINTER NAME OR "NEW" IF NEW PRINTER

Enter one of the following:

pname a valid existing printer. Go to step 34.

NEW to create a new printer. (See initialization).

34. CRT displays:

(01) PRINTER NAME	pname
(02) CONTROLLER ADDRESS	hhhh/[TBR]
(03) SELECT CODE	n/[TBR]
(04) TYPE	c
(91) DELETE PRINTER ENTER PARAMETER NUMBER OR 99 IF FINISHED	

Enter one of the following:

- 1 to change printer name. Go to step 35.
- 2 to change controller address. Go to step 36.
- 3 to change select code. Go to step 37.
- 4 to change printer type. Go to step 38.
- 91 to delete printer displayed. Return to step 1.
- 99 to terminate. Return to step 1.

35. CRT displays:

PRTn

ENTER PRINTER NAME

Enter one of the following:

pname a 1-6 character alphanumeric unit name
NEWLINE DEFAULT = PRTn

Return to step 34.

36. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

O=FFEO a hexadecimal address
NEWLINE DEFAULT = [TBR] 'to be resolved' by XOXCON
at configuration validation time

Return to step 34.

CAUTION: Except for types 6, 9, R, H, and D, only 4 printers are physically able to be in use at any one point in time, XOSCON will only resolve the first four printers correctly. All printers following that will be resolved with the fourth printer's address. If more than four printers are to be generated, the user should enter his own controller address.

37. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 code used to distinguish multiple units with same controller address

NEWLINE DEFAULT = [TBR] 'to be resolved' by XOSCON at configuration validation time

Return to step 34.

38. CRT displays:

ENTER TYPE

Enter one of the following:

0	type 0: Dumb Centronics
1	type 1: Data printer
2	type 2: CDC 9322
3	type 3: CDC 9316-17-18 (U.C.) CDC 9386
4	type 4: ODEC Data 100
5	type 5: CDC 9316-17-18 (U.C./L.C.)
6	type 6: TI810
7	type 7: Dataproducts B300/B600 Upper case only
8	type 8: Dataproducts B300/B600 Upper/ lower case
9	type 9: Diablo
R	remote printer
H	remote Diablo with Hazeltine CRT
D	remote Diablo printer
A	type A: Okidata Printer
NEWLINE	DEFAULT = type 4

SPOOLERS

39. CRT displays:

ENTER SPOOLER NAME OR "NEW" IF NEW SPOOLER

Enter one of the following:

sname a valid existing spooler. Go to step 40.

NEW to create new spooler. (See Initialization).

40. CRT displays:

(01) SPOOLER sname

(02) SPOOL FILE filename

(03) DISK VOLUME FOR SPOOL FILE n

(91) DELETE SPOOLER

ENTER PARAMETER NUMBER OR 99 IF FINISHED

Enter one of the following:

1 to change spooler name. Go to step 41.

2 to change spool file name. Go to step 42.

3 to change disk number for spooler. Go to step 43.

91 to delete spooler displayed. Return to step 1.

99 to terminate. Return to step 1.

TIME OUT

Press RETURN to continue

41. CRT displays:

ENTER SPOOLER NAME

Enter one of the following:

sname a 1-6 character name

NEWLINE DEFAULT = PRTQn

Return to step 40.

42. CRT displays:

ENTER SPOOL FILE NAME

Enter one of the following:

sname a 1-21 character file name

NEWLINE DEFAULT = @SPOOLn

Return to step 40.

43. CRT displays:

ENTER DISK VOLUME FOR SPOOL FILE

Enter one of the following:

0-32 disk number where spool file will be

NEWLINE DEFAULT = specified system disk

Return to step 40.

SPECIAL UNITS

44. CRT displays:

ENTER SPECIAL UNIT NAME OR "NEW" IF NEW UNIT

Enter one of the following:

uname a valid existing special unit.

NEW to create a new special unit (see Initialization).

45. CRT displays:

- (01) SPECIAL UNIT uname
- (02) CONTROLLER ADDRESS hhhh
- (03) SELECT CODE n
- (04) DRIVER ROUTINE NAME filename
- (05) INITIALIZATION ROUTINE NAME filename
- (06) PHYSICAL UNIT BLOCK SIZE n
- (91) DELETE SPECIAL UNIT

ENTER PARAMETER NUMBER OR 99 IF FINISHED

Enter one of the following:

- 1 to change special unit name. Go to step 46.
- 2 to change controller address. Go to step 47.
- 3 to change select code. Go to step 48.
- 4 to change driver routine name. Go to step 49.
- 5 to change initialization routine name. Go to step 50.
- 6 to change size of PUB. Go to step 51.
- 91 to delete special unit displayed. Return to step 1.
- 99 to terminate. Return to step 1.

46. CRT displays:

ENTER SPECIAL UNIT NAME

Enter one of the following:
uname a 1-6 character unit name
NEWLINE DEFAULT = UNITn

Return to step 45.

47. CRT displays:

ENTER CONTROLLER ADDRESS

Enter one of the following:

0-FFFF a hexadecimal address
NEWLINE DEFAULT = F000

Return to step 45.

48. CRT displays:

ENTER SELECT CODE

Enter one of the following:

0-127 code used to distinguish multiple units
with the same controller address

NEWLINE DEFAULT = 0

Return to step 45.

49. CRT displays:

ENTER DRIVER ROUTINE NAME

Enter a 1-21 character file name to be used as the driver
for the special unit. Return to step 45.

50. CRT displays:

ENTER INITIALIZATION ROUTINE NAME

Enter a 1-21 character file name which will initialize
the special unit. Return to step 45.

END PROCESSING

56. CRT displays:

END XOSCON

/ 000000 ("WEEK" TO ANSWER THIS SET
/ DO YOU WANT A LISTING OF THE CONFIGURATION SET?
/ Techwill be set to NO)

ENTER: Enter edit response 0-1 ↵

Y Enter If you wish to print a listing of
your configuration table

N Enter If you do not wish a listing

57. CRT displays: (if you answered yes to produce a
listing)

ENTER PRINT DEVICE NAME:

Enter edit configuration response 0-1 ↵

Enter:

:sysig n PRT

PRTn

SYS0 and SYS2 are cleared, and program terminates.

CAUTION: If the configuration has not been validated
and written to the configuration data set,
anyone of the current configuration data will be lost.
If based on the current configuration data will be lost.
immediately after the configuration data will be lost.

Enter Y or N to validate configuration data
and ready configuration data to be used in
the system.

COMMUNICATIONS LINES

58. CRT displays:

ENTER LINE NAME OR "NEW"/@00000

Enter one of the following:

NAME a 1-6 character line name :~~TEST2~~NEW a 1-6 character line name :~~TEST2~~

Note: NEWLINE will not default name.

59. CRT displays: (if "NEW" was entered)

ENTER LINE NAME/@00000

Enter the following:

a 1-6 character communications line name :~~TEST2~~

60. CRT displays:

ENTER CONTROLLER ADDRESS/@00000

Enter one of the following:

~~0-FFEO~~ A hexadecimal memory location.
~~0-FFEO~~ The memory location is the address
~~0-FFEO~~ in which the multiplexer board is
~~0-FFEO~~ accessed by the operating system.NEWLINE System defaults to TBR to be
resolved at configuration validation
time.

61. CRT displays:

ENTER SELECT CODE/000000 BMAM BMAM BMAM BMAM BMAM

Enter one of the following:

0-12 Select code used to distinguish multiple units with the same controller address.

NEWLINE System defaults TBR to be resolved at configuration validation time.

Note: If the controller address was entered in previous step, the select code must be entered (10) here. (00000000000000000000000000000000)

62. CRT displays:

ENTER MULTIPLEXER CONTROL BYTE(MCB)/#####

Enter one of the following:

71 300 baud, 8 data bits, even parity

103 1200 baud, 8 data bits, even parity

135 2400 baud, 8 data bits, even parity

167 4800 baud, 8 data bits, even parity

199 9600 baud, 8 data bits, even parity

NEWLINE system defaults to 'I97' - 9600 baud, 7 data bits, odd parity

63. CRT displays:

ENTER SECURITY CODE/00000000000000000000000000000000

Enter one of the following:

XXXXXX a 1-6 alphanumeric code

NEWLINE system defaults to no code

64. CRT Displays:

Terminal Message Editing

ENTER LINE NAME OR NEW/@@@@@@

Enter one of the following: (vertical edit to end record)

If line **LNAME** is already valid & existing line name. Go to step 65.
 If not, go to step 66 or **next step**.

New or **NEWed** or to create a new communications
 line or multiplexer line. (See Initialization)

65. CRT displays: Enter one of the following edit to end record

(01) LINE NAME LNAME

(02) CONTROLLER ADDRESS hhhh/ TBR

(03) SELECT CODE n/ TBR

(04) MCB n/ TBR

(05) SECURITY CODE code/none

(91) DELETE LINE

ENTER PARAMETER NUMBER OR 99 IF FINISHED/#

Enter one of the following:

1 To change line name. Go to step 66.

2 To change controller address. Go to step 67.

3 To change select code. Go to step 68.

4 To change multiplexer address. Go to step 69.

5 To change security code. Go to step 70.

91 To delete line displayed. Return to step 1 of editing.

99 To terminate. Return to step 1 of editing.

, vertical edit to end record

Line definition English 6-1 E XPK47X

Show all or none of message ENGLISH

66. CRT displays:
ENTER LINE NAME/@@@
Enter one of the following:
LNAME a 1-6 character line name
NEWLINE default to LINE
Return to step 64.
67. CRT displays:
ENTER CONTROLLER ADDRESS/@@@
Enter one of the following:
0-FFE0 a hexadecimal memory location
NEWLINE default= TBR to be resolved by XOSCON at configuration validation time
Return to step 64.
68. CRT displays:
ENTER SELECT CODE/#####
Enter one of the following:
0-127 Code used to distinguish multiple lines with the same controller address.
NEWLINE default= TBR to be resolved by XOSCON at configuration validation time
Return to step 64.

Section 4.1

69. CRT displays:

ENTER MULTIPLEXER CONTROL BYTE/##### ENTR

Enter one of the following:

Same chart as in step 62. If none, go to step 64.

Return to step 64.

70. CRT displays:

ENTER SECURITY CODE/##### ENTR

Enter one of the following:

CODE a 1-6 alphanumeric code

NEWLINE or default=no code all others do not enter

Return to step 64.