

P6060

**Extended System Environment
Installation Disk: R 4.0
Installation Manual**

olivetti

ZU Code 3976300 E (0)

SOFTWARE

The purpose of this publication is to show the functions of the installation disk to be used in conjunction with Release 4.0 of the Extended System Environment (ESE) of the P6060 Operating System.

SUMMARY

The manual briefly describes the objectives of the installation disk and illustrates in more detail the programs which make it up.

A sample run for each program is enclosed.

Related Documents: None

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1. INTRODUCTION

This manual is addressed to Olivetti personnel concerned with distribution and installation of Release 4.0 of the P6060 Extended System Environment.

The manual describes how to use the Installation Disk (ID) to install release 4.0 of the Extended System Environment.

The Installation Disk (ID) contains:

- a number of application programs written to:
 - . check and validate customer P6060 configuration (check of all hardware and software modules)
 - . generate and consign to the customer a system disk (SD) directly checked on the customer machine
 - . consign to the customer a modified version of the installation disk called the Customized Version of the Installation Disk (CVID), which contains information describing the customer site (for example, customer name, address, etc.) and P6060 configuration (for example, memory size, number of floppy disk drivers, etc.). The information is stored on a data file
 - . generate two copies of a document that verify that installation has been correct
 - . consign to the customer a list of all release limitations known when the release is delivered

All the above operations should be carried out in the presence of the customer himself.

By using the customized version of the installation disk (CVID), the customer will be able to:

- repeat hardware and software module tests in order to check whether the system is functioning correctly

at any time. (Tests should be repeated before calling STAC service).

Conversational Mode

Operating procedures are handled conversationally, that is in a "question and answer" mode: all required information to be entered and all the action to be taken are specified by messages on the display or on the integrated printer. The programs in this installation disk were written in Olivetti P6060 BASIC; however, the person installing the system needs not to be concerned with the language used at all.

Programs Available

The programs on the installation master disk were designed to operate on these minimum P6060 configurations:

- for floppy disk systems:
 - P6060 base unit
 - integrated or auxiliary printer
 - 2 floppy disk drives
- for DCU or HDU systems:
 - P6060 base unit
 - integrated or auxiliary printer
 - one DCU or HDU unit

For the following configuration:

- P6060 with a single drive floppy disk
- integrated or auxiliary printer
- DCU or HDU unit

There must be the 'DCH' function included in the system.

The *HELP program describes, for every program, the contents, the method used, the available options (if any), and any particular procedure that the user needs. The available programs are the following:

- *HELP description of contents of ID
- *D P6060 R.4.Ø ESE installation program
- *TEST hardware and software module tests

How this Manual
is Organized

This manual presents the description and procedural information for each program in the installation disk by standard subsections as follows:

- program title and mnemonic
- purpose
- method
- operating procedure
- error messages
- sample run
- references.

IVREA

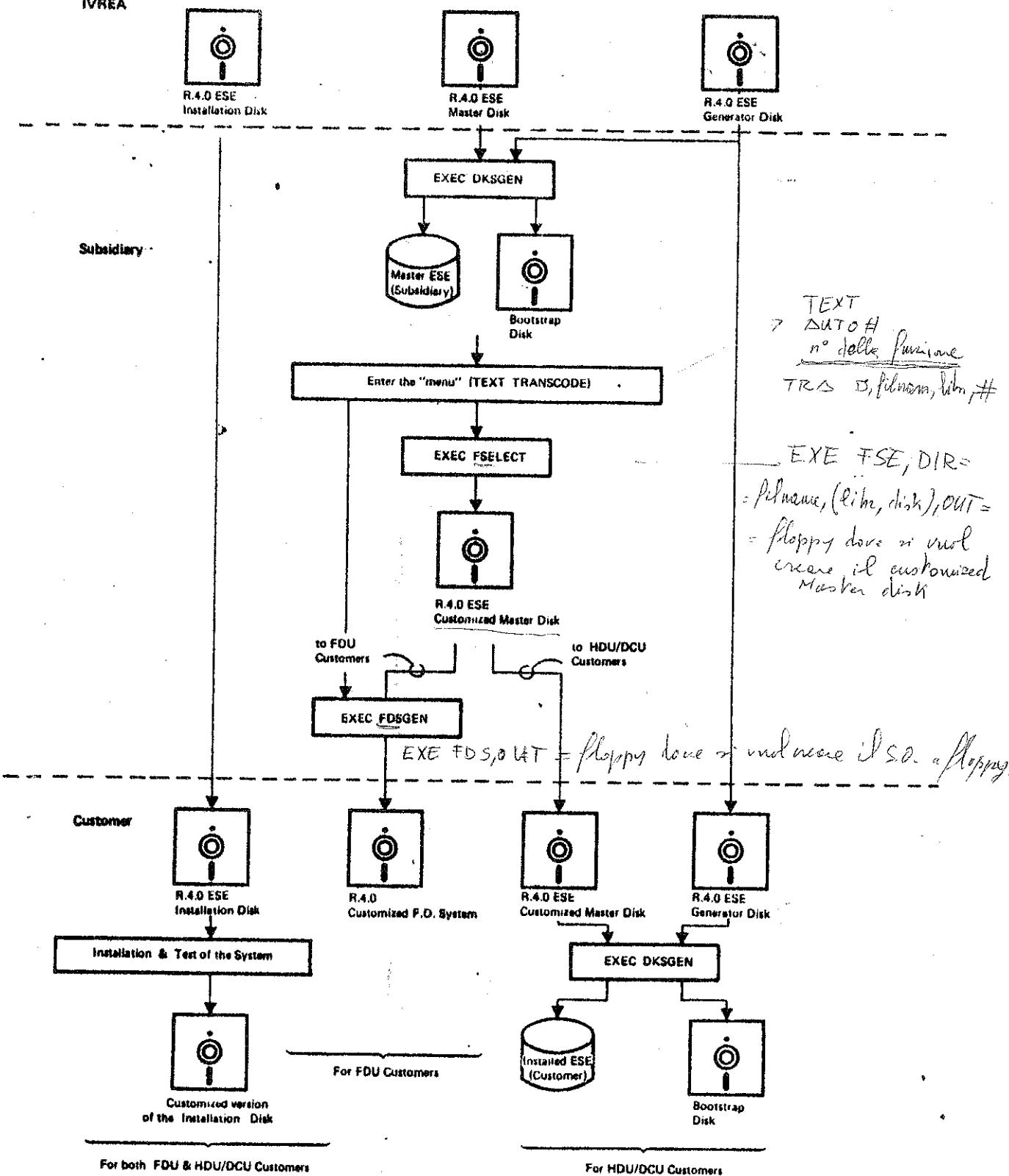


Figura 1-1 P6060 System Environment R.4.0 Distribution & Installation

*HELP

Purpose

This program is designed to assist you to use the programs contained on the installation disk. If you are already familiar with the contents of the disk and have previously run the programs you may not need to use the program at all. Simply press the RUN key, enter the filename of the program you want and press the EOL key. If you are familiar with the program, but have forgotten the filename for the program you want, then you may use *HELP to list the available programs and their filenames. Then you can access the programs without asking for the descriptive text. If you have never used the program before, then you may use *HELP to give you a thorough description of each program you want and the procedure for accessing it.

Operating Procedure

For floppy disk systems:

1. Insert the floppy disk system (R.4.0 CUSTOMIZED FLOPPY DISK SYSTEM) in drive 2 (lower section) and the installation disk in drive 1 (upper section). Switch on the P6060 and close the drives.
2. When READY is displayed and 'ERROR 173' is printed, enter

LBO (INSTAL,FDU1) (EOL)

3. Enter

RUN *HELP,(INSTAL,FDU1) (EOL)

For DCU or HDU systems (with a 2 floppy disk drive):

1. Ensure that the machine is in Command Mode (if you are running a program, press BREAK. The P6060 will put you in Command Mode. If you are already in Command Mode you will get an audio beep). Make sure that there is the installation disk in drive 1 (upper section) of the floppy disk unit.

2. Enter

LBO (INSTAL,FDU1) (EOL)

3. Enter

RUN *HELP,(INSTAL,FDU1) (EOL)

For DCU or HDU systems (with a single floppy disk drive):

1. Insert the Bootstrap:

- Switch on the P6060 and close the drive

2. When the system has been loaded, enter:

DCH FDU1 (EOL)

When

LOAD DISK ON FDU1

is displayed, open the drive and replace the bootstrap with the floppy disk 'R.4.Ø ESE INSTALLATION DISK'.

Close the drive and press 'CONTINUE'.

3. When 'LIBR. INSTAL OPEN ON UNIT FDU1' is displayed, enter:

RUN *HELP,(INSTAL,FDU1) (EOL)

4. The message identifying the package will be displayed:

R.4.Ø ESE INSTALLATION DISK

and the program header will be printed

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Release 4 Level 0 April 1979
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followed by the list of program numbers (explanation code), program titles, their filenames and some general information.

5. The following message will now be displayed:

ENTER CODE ?

If you are already familiar with these programs simply press F-8 key to stop *HELP. THE P6060 will take you to step 8. If you are running this package for the first time, or want to refresh your memory on certain details, enter the code identifying the program you want to know.

6. The P6060 will now print out descriptive text for the selected program: short description, method, available options and function keys if any.
7. Again the display asks for a new explanation code, repeating step 4. If you required explanation on another program, return to step 4 entering a new request. If you require no explanation on other programs, then press F-8 and go to step 8.

8. The message

PROCEDURE FOR RUNNING A PROGRAM

will now appear and a reminder on how to run your program will be printed. The P6060 will automatically exit the *HELP program.

Program Error Messages

ERROR-ENTER CODE ?

The entered explanation code is invalid.

Action: enter correct code, integer from 1 to 4 or press F-8.

RUN *HELP

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PROGRAMS

- 10 *P - R4.0 ESE INSTALLATION
20 *TEST - HARDWARE AND SOFTWARE TESTS

EXPLANATION CODE#

- *1 - OBJECTIVES AND STRUCTURE OF PACKAGE
*2 - R4.0 ESE INSTALLATION
*3 - HARDWARE AND SOFTWARE TESTS
*4 - SYSTEM GENERATION (ONLY FOR DCU OR HDU SYSTEMS)
F-8 TO END *HELP PROGRAM

OBJECTIVES AND STRUCTURE OF PACKAGE

1. TO CHECK AND VALIDATE THE CONFIGURATION AND THE SYSTEM.
(CHECK ALL SYSTEM COMPONENTS AND OPERATION OF THE OPERATING SYSTEM)
2. TO PROVIDE THE CUSTOMER WITH A CUSTOMIZED VERSION OF THE INSTALLATION
DTSK (QUDI) BY WHICH HE CAN CHECK FOR FAULTS IN SYSTEM OPERATION.
3. TO PROVIDE THE CUSTOMER WITH THE R4.0 ESE AND TO CHECK ITS VALIDITY
DIRECTLY ON HIS SYSTEM.
4. TO PROVIDE THE CUSTOMER WITH A LIST OF LIMITATIONS IN
THE CONSIGNMENT RELEASE OF THE OPERATING SYSTEM.

THE PACKAGE IS COMPOSED OF TWO PROCEDURES:
- R4.0 ESE INSTALLATION
- HARDWARE AND SOFTWARE TESTS

EXPLANATION CODE#

- #1 - OBJECTIVES AND STRUCTURE OF PACKAGE
 - #2 - R4.0 ESE INSTALLATION
 - #3 - HARDWARE AND SOFTWARE TESTS
 - #4 - SYSTEM GENERATION (ONLY FOR DCU OR HDU SYSTEMS)
- F-8 TO END *HELP PROGRAM

ESE INSTALLATION R 4.0

THE FOLLOWING MEDIA ARE REQUIRED TO INSTALL A NEW SYSTEM.

- FOR FLOPPY DISK SYSTEMS:
 - A COPY OF THE FLOPPY DISK 'R 4.0 CUSTOMIZED F. D. SYSTEM'
 - A COPY OF THE FLOPPY DISK 'R 4.0 ESE INSTALLATION DISK'
- FOR DCU OR HDU SYSTEMS:
 - A COPY OF THE FLOPPY DISK 'R 4.0 ESE GENERATOR DISK'
 - A COPY OF THE FLOPPY DISK 'R 4.0 ESE CUSTOMIZED MASTER DISK'
 - A NEW FLOPPY DISK

THE OPERATING PROCEDURE IS AS FOLLOWS.

- FOR FLOPPY DISK SYSTEMS:
 - SWITCH ON THE P6060.
 - INSERT THE FLOPPY DISK 'R 4.0 CUSTOMIZED F. D. SYSTEM' IN DRIVE 2 (LOWER SECTION).
 - INSERT THE FLOPPY DISK 'R 4.0 ESE INSTALLATION DISK' IN DRIVE 1 (UPPER SECTION).
 - CLOSE THE DRIVES.
- AFTER 'READY' IS DISPLAYED AND 'ERROR 173' IS PRINTED, ENTER:
 - LBD (INSTAL.FDU10 (EOL))
 - RUN +D, (INSTAL.FDU11 (EOL))
- FOR DCU OR HDU SYSTEMS:
 - AFTER SYSTEM GENERATION, ENTER:
 - RUN +D, (INSTAL.FDU13 (EOL))

THE PACKAGE FIRST ASKS FOR INFORMATION ABOUT THE CUSTOMER AND THE SYSTEM, WHICH IS THEN PRINTED FOR CHECKING AND IF CONFIRMED TEST FOR THE PRESENCE OR OTHERWISE OF CERTAIN SYSTEM FUNCTIONS. THESE FUNCTIONS ARE INDISPENSABLE FOR OPTIONAL TESTS TO BE PERFORMED ONLY IF THE REQUESTED FUNCTIONS ARE PRESENT IN THE SYSTEM.

TWO COPIES OF THE ACCEPTANCE FORM ARE PRINTED, ONE TO BE SIGNED BY THE INSTALLER AND TO BE RETAINED BY THE CUSTOMER, THE OTHER TO BE SIGNED BY THE CUSTOMER AND TO BE RETAINED BY OLIVETTI.
IF THE INSTALLATION IS CORRECT A LIST OF LIMITATIONS IS PRINTED.

EXPLANATION CODE#

- #1 - OBJECTIVES AND STRUCTURE OF PACKAGE
 - #2 - R4.0 ESE INSTALLATION
 - #3 - HARDWARE AND SOFTWARE TESTS
 - #4 - SYSTEM GENERATION (ONLY FOR DCU OR HCU SYSTEMS)

F-8 TO END *HELP PROGRAM

HARDWARE AND SOFTWARE TESTS

THE PROCEDURE MUST BE ACTIVATED EVERY TIME THE CUSTOMER WANTS TO TEST THE SYSTEM, BEFORE CALLING FOR OLIVETTI ASSISTANCE. TESTS ARE CARRIED OUT IN THE SAME ORDER AND IN THE SAME WAY AS DURING THE INSTALLATION PROCEDURE. THE OPERATING PROCEDURE IS THE FOLLOWING:

- FOR FLOPPY DISK SYSTEMS

2) ENTER THE FLOPPY DISK 'R 4.0 CUSTOMIZED F. D. SYSTEM' IN DRIVE 2 (LOWER SECTION) AND THE FLOPPY DISK 'CUSTOMIZED VERSION OF THE INSTALLATION DISK' IN DRIVE 1 (UPPER SECTION).

- FOR DCU OR HDU (WITH A SINGLE FLOPPY DISK DRIVE).

2) AFTER HAVING LOADED THE SYSTEM USING THE BOOTSTRAP, ENTER:

DCH FDU1 (EOL)

AND REPLACE THE BOOTSTRAP WITH THE FLOPPY DISK 'CUSTOMIZED VERSION OF THE INSTALLATION DISK'.

- FOR DCU OR HDU (WITH 2 FLOPPY DISK DRIVES).

2) ENTER THE BOOTSTRAP IN DRIVE 2 (LOWER SECTION) AND THE FLOPPY DISK 'CUSTOMIZED VERSION OF THE INSTALLATION DISK' IN DRIVE 1 (UPPER SECTION).

3) CLOSE THE DRIVES.

4) ONLY FOR DCU OR HDU (WITH 2 F. D. DRIVES) AND FOR F. D. SYSTEMS, ENTER:

LBO (INSTAL.FDU1) (EOL)

5) ENTER.

RUN *TEST.(INSTAL.FDU1) (EOL)

EXPLANATION CODE#

- #1 - OBJECTIVES AND STRUCTURE OF PACKAGE
 - #2 - R4.0 ESE INSTALLATION
 - #3 - HARDWARE AND SOFTWARE TESTS
 - #4 - SYSTEM GENERATION (ONLY FOR DCU OR HDU SYSTEMS)
- F-8 TO END *HELP PROGRAM

GENERATION THE OPERATING SYSTEM ON DCU OR HDU

Operating system generation only regards DCU or HDU systems. This can be done even if the P6060 has only one floppy disk. Before the explanation of how to generate the operating system on a disk of a DCU or HDU unit, some definitions relating to the floppy disks and disks involved in the use of the P6060 ESE are given.

Up to four different types of floppy disk can be used:

1. FLOPPY disk containing the P6060 Extended System Environment, called 'R 4.0 ESE GENERATOR DISK' (volume identifier K01565)
2. FLOPPY disk containing customized software and firmware, called 'R 4.0 ESE CUSTOMIZED MASTER DISK'
3. Floppy disk containing the Bootstrap, for loading into main memory the resident part of the operating system
4. User Floppy Disk containing only the user-created library

Two different types of disk can be used:

1. System Disk, containing the P6060 ESE
2. User Disk, containing only the libraries created by the user

The FLOPPY disk called 'R 4.0 ESE GENERATOR DISK' must be inserted in a floppy disk unit to generate an operating system on disk (DCU or HDU).

When the P6060 and the disk unit have been switched on and the P6060 has been initialized, the installer can (only for DCU) do a physical initialization of the disk (for check purposes) on which the operating system will be generated. In this case he must enter:

EXE DINIT,A0,,P (EOL)

(the SYSP60 volume identifier is given to the disk)
otherwise go to the next step.

Warning

Following this procedure the previous contents (if any) of the disk are destroyed.

Enter.

EXE DKS,INperif (EOL)

'perif' is the type of floppy disk peripheral where the 'P 4.0 ESE CUSTOMIZED MASTER DISK' floppy disk will be loaded later. One of the following strings is inserted in the place of 'perif':
FDU1 to define the upper drive of the floppy disk unit.
FDU2 to define the lower drive of the floppy disk unit.
A utility is stored in the main memory which generates the P6060 ESE on a specific disk.

At the user's request, the above utility can also:

1. Logically initialize the disk on which the P6060 Extended System Environment is to be recorded
2. Record the Bootstrap on a floppy disk.

The user must provide the program with the following information:

- The type of disk unit to be used by the operating system
- The internal code of the unit
- The symbolic name by which the unit will be subsequently referred to in system and utility control commands.

This information is provided when the following message is displayed.

UNIT?

The response to this message takes the form:

'type,code,unit-name'

where:

type may be one of the following codes:

- DCU to specify a DCU unit
FDU to specify a floppy disk unit
HCU to specify an HCU unit

code may be one of the following:

- C0 to specify the upper drive of the floppy disk unit
C1 to specify the lower drive of the floppy disk unit
R0 to specify the fixed disk of the DCU unit connected nearer to the P6060 or the HCU unit connected nearer to the P6060
R1 to specify the removable disk of the DCU unit connected nearer to the P6060 or the HCU unit connected farther from the P6060
R2 to specify the fixed disk of the DCU unit connected farther from the P6060
R3 to specify the removable disk of the DCU unit connected farther from the P6060

unit-name is a string of up to 6 alphanumeric characters, the first of used in the unit-name operand of subsequent system and utility control commands.

The UNIT? message will appear more than once. The first time the message appears, the user must specify either DCU or HCU -- to indicate the unit on which the operating system is to be generated.

After the codes are entered, the UNIT? message is displayed again. This gives the user the chance to specify another unit for the configuration he is defining. (Note that if, in response to the message, a disk unit is again specified, it must be the same type as the type first specified (DCU or HDU.) If no additional units are to be specified, an asterisk (*) must be entered in response to the message.

The responses to the UNIT message suggested as standard are shown in Table 1 and Table 2.

- After the entry of an asterisk, the following message is displayed:

SYSTEM PASSWORD?

In response, the user must enter a string of up to 6 alphanumeric characters, excluding the blank, that is to be used as the system password to access the libraries specified in the LBOPEN command and in the commands that call the LBEMPTY, LBPROTECT, and LBSRATCH utility programs. If only END OF LINE is pressed a reserved string is assumed as system password.

Next, the following message relating to disk initialization is displayed:

INIT unit-name?

where unit-name is the symbolic name that was assigned to the unit containing the disk on which the operating system will be recorded.

The user can enter:

- I to logically initialize the disk
- H if the disk does not need to be initialized

After a response is given, execution is resumed. It is interrupted when the following message is displayed:

DISK FOR SYSTEM ON unit-name

where unit-name is the symbolic name that was assigned to the unit.

If the requested disk has been loaded, the CONTINUE button must be pressed to resume program execution. If not, the disk should be loaded, and CONTINUE then pressed.

If the disk contains some libraries that would be deleted when the operating system is recorded, program execution is interrupted, and the following message is displayed:

LISTED LIBRARIES WILL BE DELETED

A printed listing of the libraries, in the following format, is given.

```
LIBRARY lib-name  
LIBRARY lib-name  
LIBRARY lib-name
```

where lib-name is the name previously assigned to the library in a LBCREATE utility program.

If the BREAK button is pressed, program execution restarts with the following message being issued:

DISK FOR SYSTEM ON unit-name

and the user can change the disk.

If the deletion of the libraries is unimportant, the CONTINUE button can be pressed to resume utility execution.

The following message is displayed:

LOAD DISK ON perif

where 'perif' FDU1 or FDU2.

The floppy disk 'R 4.0 ESE CUSTOMIZED MASTER DISK' is inserted in the drive given by 'perif' and CONTINUE is pressed.

The operating system is stored on disk.

When recording of the operating system is complete, the following message is displayed:

BOOTSTRAP?

If the Bootstrap is not to be recorded, the user responds to the BOOTSTRAP? message by entering an N.

If the user responds by entering Y, the Bootstrap is recorded on the floppy disk loaded in the drive identified by unit-name in the message next displayed:

LOAD DISK FOR BTSTRAP ON unit-name

After the user inserts the required floppy disk in the drive, the CONTINUE button must be pressed.

After the Bootstrap is recorded (or if N was entered), the following message is displayed:

END OF CONFIGURATION

and information describing the system configuration generated is printed on the integrated printer.

TABLE 1

FDU

DCU

	single drive	dual drive
one unit	DCU,A0,LD DCU,A1,UD FDU,C0,FDU1	DCU,A0,LD DCU,A1,UD FDU,C0,FDU1 FDU,C1,FDU2
two units	DCU,A0,LD DCU,A1,UD DCU,A2,SLD DCU,A3,SUD FDU,C0,FDU1	DCU,A0,LD DCU,A1,UD DCU,A2,SLD DCU,A3,SUD FDU,C0,FDU1 FDU,C1,FDU2

TABLE 2

FDU

HDU

	single drive	dual drive
one unit	HDU,A0,HD FDU,C0,FDU1	HDU,A0,HD FDU,C0,FDU2 FDU,C1,FDU2
two units	HDU,A0,HD HDU,A1,SHD FDU,C0,FDU1	HDU,A0,HD HDU,A1,SHD FDU,C0,FDU1 FDU,C1,FDU2

TO RUN A PROGRAM ENTER RUN filename,(lib-ref) (EOL)

END *HELP

P6060 RELEASE 4.0 EXTENDED SYSTEM ENVIRONMENT INSTALLATION

*D

Purpose

This program allows the installer to accomplish P6060 release 4.0 ESE installation in a very easy, safe and standard way. The ESE Release 4.0 installer must have the floppy disks needed for installation and a list of functions in the system to be installed. This list must be supplied by the Associate staff (table 3-3 contains a complete list of the functions). If the P6060 has a single floppy disk drive, it is not possible to install floppy disk systems.

Method

P6060 R.4.0 ESE installation proceeds through the following steps:

- inquiring about customer and machine configuration
- requests for certain functions in the system (to be checked with the list in the installer's possession)
- testing of hardware and software components
- printing of documents
- generation of a modified version of the installation master disk

*D program performs the following tests:

- memory size and efficiency
- standard basic language features
- integrated keyboard
- integrated printer

If certain functions are present in the system, the following tests if required can be performed via program *D:

- string option features
- matrix option features

- integrated plotter
- graphic display test (DSM 666Ø)
- IPSO interface and IPSO peripherals
- EIA RS232-C (CCITT V24) interface

Memory test is carried out by writing and reading from all the memory addresses. Standard basic, string and matrix options tests are carried out by performing particular sequences of BASIC instructions. Integrated printer and plotter tests are carried out by outputting, on the thermal printer, some special characters (integrated printed test) and a picture (integrated plotter test). The graphic display test is performed by displaying on the screen a drawing. As indicated above, the IPSO interface and the peripherals test and the RS232 interface test are optional tests (program *D will ask you whether you require these tests).

Program *D was written to test the following IPSO peripherals:

- auxiliary printers PR1220/PR1230/PR1240
- paper tape punch PN 20
- punched tape reader LN 20
- plotter XY600
- cassette tape unit CTU 1010 and CTU 1000 (1 or 2 drives)
- Editor 4/ST

According to the customer's P6060 peripheral configuration, installer may or may not require IPSO testing.

Operating Procedure

To install a floppy disk system the installer must have 2 floppy disks with him.

- R.A.Ø CUSTOMIZED F.D. SYSTEM
- R.A.Ø ESE INSTALLATION DISK (code: P60609)

He must also have the list of the functions in the system. The operating procedure to install a floppy disk system is as follows:

- switch on the P6060
- insert the R.4.Ø CUSTOMIZED F.D. SYSTEM floppy disk into drive 2 (lower section)
- insert the R.4.Ø ESE INSTALLATION DISK floppy disk (code P60609) in drive 1 (upper section)
- close the drives and when 'ERROR 173' is printed, enter:

LBO (INSTAL,FD01) (EOL)

- enter:

RUN *D (EOL)

To install a DCU or HDU disk system, the installer must have 4 floppy disks with him:

- R.4.Ø ESE GENERATOR DISK (code: KØ1565)
- R.4.Ø CUSTOMIZED MASTER DISK
- R.4.Ø ESE INSTALLATION DISK (code: A60609)
- a new floppy disk

He must also have a list of the functions in the system.

The installation of a DCU or HDU system is completely different from an FD system installation. In fact, it is necessary to "generate" the system on DCU or HDU before any operation, following the procedure:

- turn on the DCU or HDU (insert the second disk before turning on the DCU) and the P6060 system
- wait until the yellow lamp (READY) on DCU lights up
- insert the FD named Release 4.Ø ESE GENERATOR DISK on drive ONE (upper)
- close the flaps
- only for DCU system:
If the installer wants to do a physical initialization of the disk (for check purposes) on which the operating system will be generated, enter:

EXE PINIT,AØ,,P (EOL)

(wait for about 4 mins.)

Otherwise go to the next step.

Warning: Following this procedure the previous contents (if any) of the disk are destroyed.

- Enter the string:

EXE DKS,TN = perif (EOL)

where 'perif' is

FDU2? (if it is a 2 floppy disk drive)

FDU1? (if it is a single floppy disk drive)

- when the display reads "UNIT?" enter the sequence 1, 2, 3 or 4 according to the customer configuration (see table 3-1 and table 3-2)
- when the display reads "SYSTEM PASSWORD?", enter six-character word maximum
- when the display reads "INIT unit-name?", enter L
- the display reads "DISK FOR SYSTEM ON unit-name"
- press CONTINUE

Warning: Following this procedure the previous contents (if any) of the disks are destroyed.

- when

LOAD DISK ON perif

is displayed, insert the 'R.4.0 ESE CUSTOMIZED MASTER DISK' floppy disk in drive 2 (lower section) (upper if single drive)

- close the drive and press CONTINUE
- when the display reads "BOOTSTRAP?", enter "YES"
- the display reads "LOAD DISK FOR BTSTRAP ON FDU2" (FDU1 if single drive)

- open flaps of drive two (lower) - (upper, if single drive)
- insert a new disk
- close flaps and press "CONTINUE"
- after the printing of system environment, switch off the P6060

At this stage system generation on DCU or HDU is terminated. The following phase regards the execution of the installation procedure. Operate as follows:

- for DCU or HDU systems (with a single floppy disk drive):
 - insert the bootstrap floppy disk
 - switch on the P6060 again and close the drive
 - when 'READY' is displayed and 'ERROR 173' is printed, enter:

DCH FD01 (EOL)

- when

LOAD DISK ON FD01

is displayed, open the drive and replace the bootstrap with the floppy disk 'R.4.0 ESE INSTALLATION DISK'

- close the drive and press 'CONTINUE'
- 'LIBR. INSTAL OPEN ON UNIT FD01 will be displayed

- For DCU or HDU systems (with 2 floppy disk drive)

- insert the bootstrap in drive 2 (lower section) and the floppy disk 'R.4.0 ESE INSTALLATION DISK' in drive 1 (upper section)
- switch on the P6060 again and close the drives
- when 'READY' is displayed and 'ERROR 173' is printed, enter:

LBO (INSTAL,FDU1) (EOL)

The following steps of the operating procedure differ for DCU and HDU systems.

For DCU system:

- enter "EXE DINIT, UD,, P" (A)
- the display reads "ACTION ON UNIT UD?" (B)
- press "CONTINUE" and wait for about 4 mins. (C)
- if there are two DCU units, repeat steps A, B, C twice, replacing UD with SLD and SUD; otherwise go to the next step
- when the display reads "READY", enter:

RUN *D,(INSTAL,FDU1) (EOL)

For HDU system:

- only if there are two HDU units enter

EXE DINIT, SHD,, L

The display reads "ACTION ON UNIT SHD?", press "CONTINUE"

- when the display reads "READY", enter

RUN *D,(INSTAL,FDU1) (EOL)

The program will require particulars concerning the customer and P6060 configuration. Information entered by the installer through keyboard will be printed, to verify it and correct it, if necessary.

Later the program asks if the following group of functions (1 request for each group) is present in the system:

- STK (STKEYS) - OPT (OPTIONS) - STR (STRING)
- STK (STKEYS) - OPT (OPTIONS) - MAT (MATRIX)
- STK (STKEYS) - OPT (OPTIONS) - PLO (PLOTTER)
- STK (STKEYS) - OPT (OPTIONS) - GDI (GRAPHIC DISPLAY INTEGRATED).

The installer can check (and therefore reply to the request) the presence of each complete group of functions in the installed system on the basis of the list he has received from the associate staff. If the installer confirms the presence of the preceding 4 groups of functions in the system, the following 4 tests will be performed correspondingly:

- string option features
- matrix option features
- integrated plotter
- graphic display test

If the installer confirms that at least one of the preceding group of functions is not present, the corresponding test must not be performed.

Warning: To perform the graphic display test, the graphic display must be connected to P6060.

In the information previously requested, if at least 1 IPSO and/or EIA RS232-C interface appears, it is requested if an IPSO and/or EIA RS232-C test is required. In this case, the following group of functions need to perform these tests are requested to be included in the system.

- STK (STKEYS) - OPT (OPTIONS) - STR (STRING)
- STK (STKEYS) - OPT (OPTIONS) - RS2 (RS232)

Each of these two tests will only be performed if the presence of the corresponding group of functions is confirmed.

If IPSO interfaces and peripherals are to be checked, program *D will print a list of the peripherals. Each peripheral is related to a code: the installer, prompted by a message on the display (ENTER PERIPHERAL CODE?, ENTER INPUT ADDRESS?; ENTER OUTPUT ADDRESS?) specifies peripheral codes and related addresses in the required order. To terminate, the installer enters a \emptyset in reply to the displayed message "ENTER PERIPHERAL CODE?". The peripheral configuration will be printed to check and correct it (if necessary).

Diagnostic tests will now begin. While tests are running, messages will appear on the display, which indicate to the installer the progress and the results.

of tests, or which request some action (for example turn off a peripheral, load punched tape, press certain function keys, etc.) according to the particular peripheral configuration. If some test is incorrect, the installer must press function key F-1 to continue the following tests and terminate the program. The results for the erroneous test will be incorrect. The program will stop because installation is not possible. Otherwise, if all tests are correct, the program *D will output two copies of a document certifying P6060 R.4.0 ESE installation. The first one (customer copy) should be signed by the installer and given to the customer; the second, signed by the customer, should be retained by the installer. The program will then print the following document to be given to the customer:

- a list of R.4.0 ESE limitations

The program will now print out instructions to generate CVID.

When the procedure is terminated, the contents of the floppy disk 'R.4.0 ESE INSTALLATION DISK' (code: P60609) has been modified and this floppy disk assumes the name of 'R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK'.

The installer must consign the following floppy disks to the customer:

- for floppy disk systems:
 - . 'R.4.0 CUSTOMIZED F.D. SYSTEM'
 - . 'R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK' (code: P60609)
- for DCU or HDU systems:
 - . 'R.4.0 ESE GENERATOR DISK' (code K01565)
 - . 'R.4.0 CUSTOMIZED MASTER DISK'
 - . The bootstrap
 - . 'R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK' (code: P60609)

Program Error Messages

ERROR NO. OF DCU OR HDU UNITS (\emptyset , 1, 2)?

An incorrect number of DCU or HDU was entered.

Action: according to the machine configuration, enter the correct number of DCU or HDU units, an integer from \emptyset (number of DCU or HDU units) to 2 followed by EOL.

ERROR - ENTER 1(EOL) OR \emptyset (EOL)?

An entry other than 1 or \emptyset has been made.

Action: enter correct answer followed by EOL.

ERROR MEM. SIZE (e.g. FOR 16K ENTER 16)?

An incorrect memory size has been entered.

Action: according to machine memory size, enter an integer from 16 to 48 (step 8) followed by EOL.

ERROR NO.OF IPSO INTERFACES (\emptyset , 1, 2)?

An incorrect number of IPSO interface has been entered.

Action: according to machine configuration, enter the correct number of IPSO interface, an integer from \emptyset (no interface) to 2 followed by EOL.

ERROR - TOO LONG FILE

A character string greater than 32 characters has been entered.

Action: enter a character string with less than 32 characters (\emptyset included).

ERROR - ENTER PERIPHERAL CODE?

A wrong peripheral code has been entered.

Action: enter correct peripheral code, an integer from 1 to 9 (or \emptyset to terminate) followed by EOL.

ERROR - ENTER ADDRESS?

ERROR - ENTER INPUT ADDRESS?

ERROR - ENTER OUTPUT ADDRESS?

An incorrect peripheral address (less than \emptyset or greater than 31) has been entered.

Action: enter correct address, an integer from \emptyset to 31.

ERROR DURING THE TESTS

One or more tests are incorrect.

Action: check the installation printed document to verify which test is incorrect.

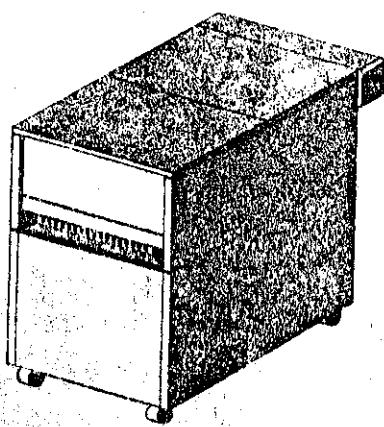
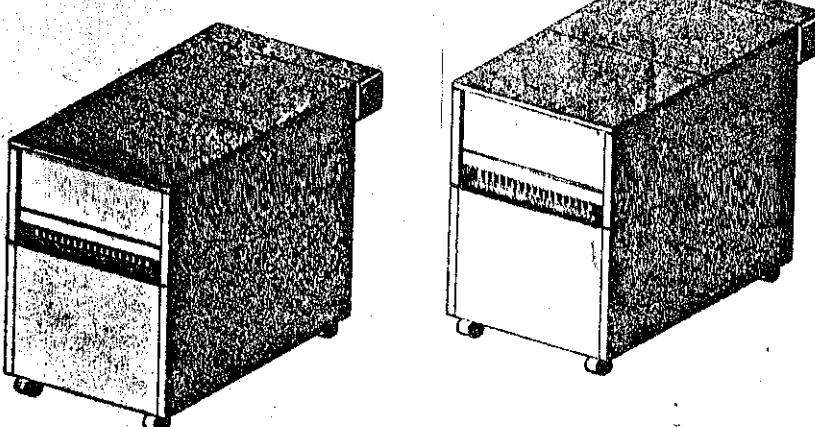
DCU	FDU single drive	FDU dual drive
	DCU,AØ,LD DCU,A1,UD FDU,CØ,FDU1*	DCU,AØ,LD DCU,A1,UD FDU,CØ,FDU1
	*	FDU,C1,FDU2*
	DCU,AØ,LD DCU,A1,UD DCU,A2,SLD DCU,A3,SUD FDU,CØ,FDU1*	DCU,AØ,LD DCU,A1,UD DCU,A2,SLD DCU,A3,SUD FDU,CØ,FDU1
	*	FDU,C1,FDU2*

Table 3-1 Responses to the UNIT? Message (DCU)

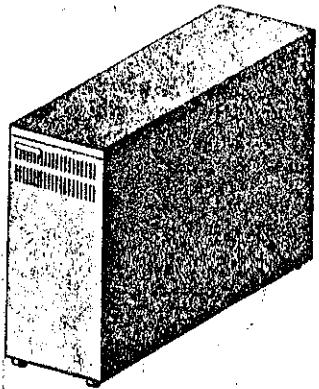
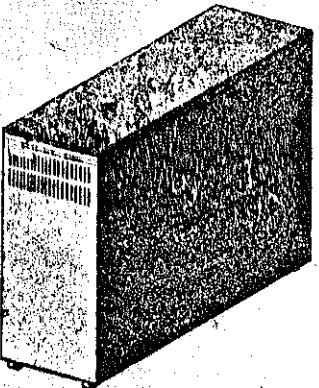
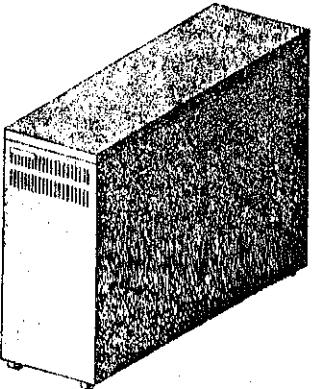
HDU	FDU single drive	FDU dual drive
	HDU,AØ,HD FDU,CØ,FDU1 *	HDU,AØ,HD FDU,CØ,FDU1 FDU,C1,FDU2 *
	HDU,AØ,HD HDU,A1,SHD FDU,CØ,FDU1 *	HDU,AØ,HD HDU,A1,SHD FDU,CØ,FDU1 FDU,C1,FDU2 *
		

Table 3-2 Responses to the UNIT? Message (HDU)



* 0000 NEW OLD PUR SAV CRE LBO LBC PRO PRE RUN (pre-executed programs only)
* 0001 DCH
* 0002 CAT
* 0003 OPT CON XNT
* 0004 REP
* 0005 LIS FET DEC
* 0006 DEL COM LIN
* 0007 TEX DEL TRA MER LIS FET (text files only)
* 0008 CALC MODE DEBUG
* 0009 STA STO
* 0010 PRE RUN
= 0011 MAT
* 0012 STR
= 0013 PLO
* 0014 EVD
= 0015 RS232
* 0016 EXD
* 0017 GDI
* 0018 AUT
* 0019 SEC
* 0020 VAL
* 0021 RES SHI
* 0022 MOD TRU
= 0023 ENV
* 0024 DAT SPA STK LDK
* 0025 LBSE
* 0026 LBR
* 0027 LVT
* 0028 EXEC LBC
* 0029 EXEC FLC
* 0030 EXEC LIB
* 0031 EXEC DCO
* 0032 EXEC LBD
* 0033 EXEC FLP
* 0034 EXEC DIN
* 0035 EXEC LBS
* 0036 EXEC VOL
* 0037 EXEC LBR
* 0038 EXEC LBE
* 0039 EXEC RES
With DCO & FLC mentioned (See 66)
With CDR & SM PERB
(The functions in line '0000' are present in any system)

Table 3-3 List of the Functions

RUN #D

IF INTEGRATED PRINTER UNIT ENTER 1(EOL), OTHERWISE ENTER 0(EOL).

IF DUAL DRIVE FLOPPY DISK UNIT ENTER 2(EOL)
IF SINGLE DRIVE FLOPPY DISK UNIT ENTER 1(EOL)

** ANSWER QUESTIONS DISPLAYED **

CUSTOMER NAME: MARIO RUSSI						
STREET: JERVIS 17						
CITY: IUREA			ZIP: 10015			
STATE: ITALY						
MACHINE NUMBER	NUMBER	NUMBER	MEMORY	INTERFACES		
SERIAL NUMBER	1 OF F.D.	1 OF HDU	SIZE	IPS0	IPS232	
1133221111	2	1	48	1	1	NO

VERIFY ABOVE INFORMATION
TO MODIFY ENTER 1(EOL), TO CONTINUE ENTER 0(EOL).

THE SYSTEM FUNCTIONS STK-OPT-STR ARE NEEDED FOR THE STRING TEST.
IF THESE FUNCTIONS ARE PRESENT, PRESS 1 (EOL), OTHERWISE 0 (EOL).

THE SYSTEM FUNCTIONS STK-OPT-MAT ARE NEEDED FOR THE MATRIX TEST.
IF THESE FUNCTIONS ARE PRESENT, PRESS 1 (EOL), OTHERWISE 0 (EOL).

THE SYSTEM FUNCTIONS STK-OPT-PLO ARE NEEDED FOR THE PLOTTER TEST.
IF THESE FUNCTIONS ARE PRESENT, PRESS 1 (EOL), OTHERWISE 0 (EOL).

THE SYSTEM FUNCTIONS STK-OPT-GDI ARE NEEDED FOR THE GRAPHIC
DISPLAY TEST.

IF THESE FUNCTIONS ARE PRESENT AND THE GRAPHIC DISPLAY IS CONNECTED
TO PAR660, PRESS 1 (EOL), OTHERWISE 0 (EOL).

IF YOU WANT TO TEST IPSO INTERFACE AND PERIPHERALS ENTER 1(EOL), OTHERWISE
ENTER 0(EOL)

THE SYSTEM FUNCTIONS STK-OPT-STR ARE NEEDED FOR THE IPSO TEST.
IF THESE FUNCTIONS ARE PRESENT, PRESS 1 (EOL), OTHERWISE 0 (EOL).

PERIPHERAL CODE #

1 PRINTER PR1220
2 PRINTER PR1230
3 PRINTER PR1240
4 FN20
5 LN20
6 CTU 1000 (1 DRIVE)
7 CTU 1000 (2 DRIVES)
8 CTU 1010 (1 DRIVE)
9 CTU 1010 (2 DRIVES)
10 EDITOR 4-ST
11 PLOTTER XY500

WHEN THE DISPLAY PROMPTS YOU, ENTER PERIPHERAL CODE (EOL), THEN PERIPHERAL ADDRESS (EOL).

TO TERMINATE, ENTER PERIPHERAL CODE # 0 (EOL).

PERIPHERAL NAME	ADDRESS
CTU 1010 (1 DRIVE)	4 (IN) 12 (OUT)

VERIFY ABOVE INFORMATION.
TO MODIFY ENTER 1(EOL). TO CONTINUE ENTER 0(EOL).

DIAGNOSTIC TESTS WILL NOW BEGIN. IF DURING THEIR EXECUTION AN ERROR APPEARS, YOU MUST:

1. CLEAR THE ERROR, PRESSING (SHIFT) (CLEAR)
2. PRESS (BREAK) - THE RED BUTTON ON THE CONSOLE
3. PRESS FKEY F-1 TO CONTINUE

PRESS:

- F-5

AFTER "ERROR 123" HAS BEEN PRINTED, PRESS:

- F-7

THEN, PRESS:

- F-8

FRANCO 173
PRESS

PREFACE

- F - S

AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

- F - 7

THEN, PRESS:

- 5 -

ERROR 173
PLEASE CORRECT XXXX IN 6060 AND PRESS EOL

PRESS:

- F-5

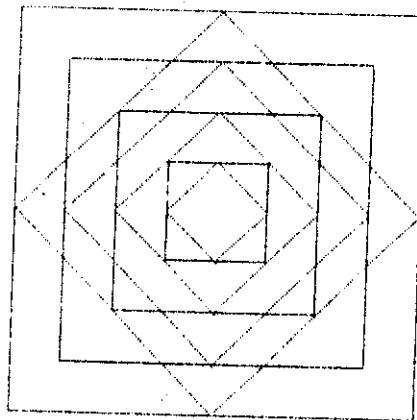
AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

- F-7

THEN, PRESS:

- F-8

ERROR 173



PRESS:

- F-5

AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

- F-7

THEN, PRESS:

- F-8

ERROR 173

CUSTOMER NAME : MARIO POSSI

STREET : JERUIS 17

CITY : IUREA ZIP 10015

STATE : ITALY

MACHINE	NUMBER	NUMBER	MEMORY	INTERFACES	RELEASE
SERIAL	OF F.D.	OF DDU	SIZE		R 4.0 ESE
NUMBER	UNITS	OR HDU		IPS0 IRS232	DATE
			UNITS		
1173221111	2	1	48	1	NO 20-03-79

PERIPHERAL NAME	ADDRESS
CTU 1010 (1 DRIVED)	4 CINO 12 COUTD
TESTS	RESULT
MEMORY	CORRECT
STANDARD BASIC	CORRECT
STRING	CORRECT
MATRIX	CORRECT
INTEGR. PRINTER	CORRECT
INTEGR. PLOTTER	CORRECT
IPS0	CORRECT
KEYBOARD	CORRECT
ETA RS232-C	NONE
GRAPHIC DISPLAY	NONE

INSTALLER SIGNATURE

INSTALLATION DATE

05-04-79

COPY FOR CUSTOMER

CUSTOMER NAME MARIO ROSSI

STREET JERVIS 17

CITY TORONTO 10015

STATE ITALY

NUMBER	NUMBER	MEMORY	INTERFACES	RELEASE
OF FLO	OF DISK	SIZE		R 4.0 ESE
SERIAL	NUMBER	OR HHD	IPS0 (PS232)	DATE
UNITS	UNITS			
1133221111	2	1	48	1 1 NO 20-03-79

PERIPHERAL NAME

ADDRESS

CTH 1010 C1 DRIVES

TESTS 4 C1D0 12 COUNT

TESTS	RESULT	NOTE
MEMORY	CORRECT	
STRINGPRO BASIC	CORRECT	
STRING	CORRECT	
MATRIX	CORRECT	
INTEGR. PRINTER	CORRECT	
INTEGR. PLOTTER	CORRECT	
IPS0	CORRECT	
KEYBOARD	CORRECT	
ETA PS232-C	NONE	
GRAPHIC DISPLAY	NONE	

CUSTOMER SIGNATURE

INSTALLATION DATE

05-04-79

COPY FOR OLIVETTI

RELEASE 4.0 ESE LIMITATIONS

1. Pressing the RECALL key during execution of a utility causes the display of READY.
2. When calculating numerical functions of non-initialized single precision variables, the indication that 'the variable is not initialized' is omitted.
3. If in the instruction A=SCN(A\$ B\$/X) the length of the A\$ string is less than the B\$ string, the error indication ERROR 1 is given.
4. The information MAXIMUM BLOCK OF FREE SPACE can be in error if, previously, some libraries have been deleted without execution of the RESTRUCT utility.
5. The command LBCLOSE in the format LBC (unit) closes not only the first library opened on the disk identified by 'unit', but all the libraries on that disk.
6. The first library on the disk containing the system is not automatically opened each time the system is loaded.
7. After the system generation on DCU/HDU, information describing the system configuration generated is printed. The information 'SOFTWARE OPTIONS: MATR' is erroneously printed.

PROCEDURE FOR CONSIGNMENT OF CUSTOMIZED VERSION OF

THE INSTALLATION DISK.

- 19 When 'READY' is displayed, press:
F-1
- 20 If:
 - the OPT and STK functions are included in the system, press:
F-3
 - then, when 'ERROR 173' is printed, press:
F-7
 - the OPT and STK functions are not included in the system,
the installation procedure is terminated.

If the installed system is a floppy disk system,
the following floppy disks must be consigned to the customer:
- R.4.0 CUSTOMIZED F. D. SYSTEM
- R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK

If the installed system is a DCU or HDU system,
the following floppy disk must be consigned to the customer.
- R.4.0 ESE GENERATOR DISK
- R.4.0 ESE CUSTOMIZED MASTER DISK
- THE BOOTSTRAP FLOPPY DISK
- R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK

ERROR 173

HARDWARE AND SOFTWARE MODULES TEST

*TEST

Purpose

This program checks and validates the customer machine configuration and system (checks all system components and operation of the operating system).

Method

Tests are carried out in the same way and order as they are in the installation program *D.

Operating Procedure

For floppy disk systems:

1. Switch on the P6060.
2. Insert the floppy disk R.4.0 CUSTOMIZED F.D. SYSTEM in drive 2 (lower section)
3. Insert the floppy disk R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK in drive 1 (upper section).
4. Close the drives and when "READY" is displayed and "ERROR 173" is printed, enter

LBO (INSTAL,FDU1) (EOL)

5. Enter:

RUN *TEST,(INSTAL,FDU1) (EOL)

For DCU or HDU systems (with a single floppy disk drive):

1. Switch on the P6060.
2. Insert the bootstrap and close the drive.
3. When 'READY' is displayed and 'ERROR 173' is printed, enter:

DCH FDU1 (EOL)

4. When the message:

LOAD DISK ON FDU1

is displayed, open the drive and replace the bootstrap with the floppy disk 'R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK'.

5. Close the drive and press 'CONTINUE'.

6. When 'LIBR. INSTAL OPEN ON UNIT FDU1' is displayed, enter:

RUN *TEST,(INSTAL,FDU1) (EOL)

For DCU or HDU systems (with a 2 floppy disk drive):

1. Switch on the P6060.

2. Insert the bootstrap in drive 2 (lower section) and the floppy disk 'R.4.0 ESE CUSTOMIZED VERSION OF THE INSTALLATION DISK' in drive 1 (upper drive).

3. Close the drives.

4. When 'READY' is displayed and 'ERROR 173' is printed, enter:

LBO (INSTAL,FDU1) (EOL)

5. Enter:

RUN *TEST,(INSTAL,FDU1) (EOL)

The test will begin.

Follow the instructions that will be printed or displayed. If, during the execution of the tests, an error appears, you must:

- clear the error, by pressing (SHIFT) (CLEAR) buttons
- press (BREAK), the red button on the console
- press F-1 to continue

Program Error Messages

ERRORS DURING THE TEST

One or more tests are incorrect.

Action: check printed document to verify which hardware or software module is incorrect.

PUN + TEST

DIAGNOSTIC TESTS WILL NOW BEGIN. IF DURING THEIR EXECUTION AN ERROR APPEARS, YOU MUST:

1. CLEAR THE ERROR, PRESSING (SHIFT) (CLEAR)
2. PRESS (BREAK) - THE RED BUTTON ON THE CONSOLE
3. PRESS FKEY F-1 TO CONTINUE

PRESS

- F-5

AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

- F-7

THEN, PRESS:

- F-8

ERROR 173
PRESS

- F-5

AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

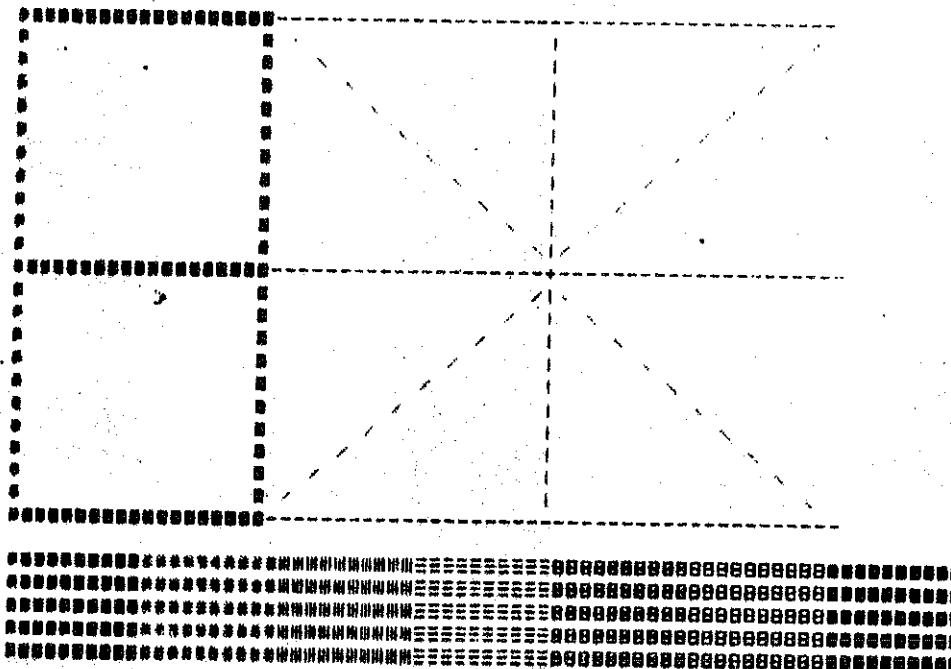
- F-7

THEN, PRESS:

- F-8

ERROR 173

PLEASE CORRECT XXXX IN 6068 AND PRESS EOL



PRESS:

- F-5

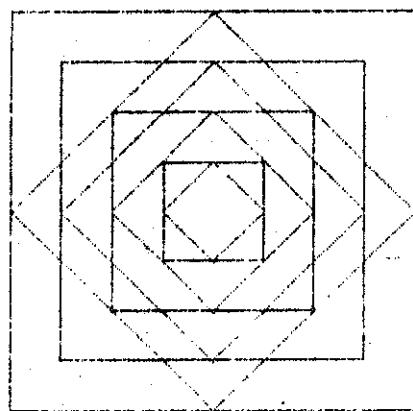
AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

- F-7

THEN, PRESS:

- F-8

ERROR 173



PRESS:

- F-5

AFTER 'ERROR 173' HAS BEEN PRINTED, PRESS:

- F-7

THEN, PRESS:

- F-8

ERROR 173

CUSTOMER NAME : MARIO ROSSI

STREET : JERVIS 17

CITY : IUREA ZIP : 10015

STATE : ITALY

MACHINE	NUMBER	NUMBER	MEMORY	INTERFACES	RELEASE
SEPTAL	OF F.D.	OF DEU	SIZE	IPS0	R 4.0 ESE.
NUMBER	UNETS	OR HDU		EIA RS232	DATE
	F UNITS				
11332211111	2	1	48	1	NO 20-03-79

PERIPHERAL NAME	ADDRESS
CTH 1010 (1 DRIVE)	4 (IND) 12 (OUT)
TESTS	RESULT
MEMORY	CORRECT
STANDARD BASIC	CORRECT
STRING	CORRECT
MATRIX	CORRECT
INTEGR. PRINTER	CORRECT
INTEGR. PLOTTER	CORRECT
IPS0	CORRECT
KEYBOARD	COPRECT
EIA RS232-C	NONE
GRAPHIC DISPLAY	NONE

INSTALLER SIGNATURE

INSTALLATION DATE

05-04-79

COPY FOR CUSTOMER

A. INSTALLATION AND MAINTENANCE

Installation

P6060 R.4.0 ESE INSTALLATION DISK will be supplied to you in the form of a user disk. Minimum system requirements:

- for floppy disk systems:

- . 16K user memory size
- . integrated or auxiliary printer
- . 2 floppy disk drives

- for DCU or HDU systems:

- . 16K user memory size
- . integrated or auxiliary size
- . one DCU or HDU unit

Obtaining a File Catalog

Any time the system is in COMMAND mode, you can obtain the file catalog (if the CAT function is included in the system) inserting the floppy disk 'R.4.0 ESE INSTALLATION DISK' (code: P60609) in drive 1 (upper drive) and entering:

- for floppy disk systems:

LBO (INSTAL,FDU1) (EOL)

and then:

CAT *,(INSTAL,FDU1),,F (EOL)

- for DCU or HDU systems:

LBO (INSTAL,FDU1) (EOL)

and then

CAT *,(INSTAL,FDU1),,F (EOL)

4

Maintenance

No particular procedure is needed.

KRESEA-R 4.0 * VOLLABEL = P60509 * LIBRARY = INSTAL * DATE 06-04-79							
FILE	TYPE	CREAT	LAST MOD	MAX SIZE	USED SIZE	CODE	EXT
*OLX999	S	06-02-78	06-02-78	42112	25728	G0100204	
*C019	S	30-08-78	30-08-78	0128	0028	G0100204	1
*C008	S	20-08-78	30-08-78	0128	0028	G0100204	1
*C015	S	21-12-78	21-12-78	0128	0028	G0100204	1
*C014	S	30-08-78	30-08-78	0128	0024	G0100204	1
*C013	S	30-08-78	30-08-78	0128	0056	G0100204	1
*C012	S	30-08-78	30-08-78	0128	0028	G0100204	1
*C011	S	30-08-78	30-08-78	0128	0032	G0100204	1
*OLX999	S	20-01-77	20-01-77	3200	3200	G0100204	1
*OLX998	S	15-12-78	15-12-78	0256	0152	G0100204	1
*OLX997	S	11-08-77	11-08-77	0256	0092	G0100204	1
*OLX996	S	30-08-78	30-08-78	0640	0448	G0100204	1
*OLX995	S	17-08-77	17-08-77	0512	0344	G0100204	1
*OLX994	S	17-08-77	17-08-77	0512	0756	G0100204	1
*OLX992	S	02-04-79	02-04-79	1536	1332	G0100204	1
*OLX991	P	06-02-78	06-02-78	0512	0512	G0100204	1
*OLX990	R	06-02-78	06-02-78	3328	3328	G0100204	1
*HELPD	S	02-04-79	02-04-79	18560	15868	G0100204	1
*P	P	02-04-79	02-04-79	1536	1536	G0100204	1
*FEST	P	02-04-79	02-04-79	0096	0096	G0100204	1
*HELP	P	02-04-79	02-04-79	2688	2688	G0100204	1
*OLX001	P	02-04-79	02-04-79	2304	2304	G0100204	1
*OLX020	P	02-04-79	02-04-79	1920	1920	G0100204	1
*OLX021	P	02-04-79	02-04-79	4992	4992	G0100204	1
*OLX022	P	02-04-79	02-04-79	1792	1792	G0100204	1
*OLX023	P	02-04-79	02-04-79	0768	0768	G0100204	1
*OLX024	P	02-04-79	02-04-79	3200	3200	G0100204	1
*OLX026	P	02-04-79	02-04-79	2304	2304	G0100204	1
*OLX027	P	02-04-79	02-04-79	0768	0768	G0100204	1
*OLX028	P	02-04-79	02-04-79	0768	0768	G0100204	1
*OLX029	P	02-04-79	02-04-79	0768	0768	G0100204	1
*OLX030	P	02-04-79	02-04-79	0512	0512	G0100204	1
*OLX031	P	02-04-79	02-04-79	0768	0768	G0100204	1
*OLX032	P	02-04-79	02-04-79	0640	0640	G0100204	1
*OLX033	P	02-04-79	02-04-79	0640	0640	G0100204	1
*OLX034	P	02-04-79	02-04-79	0640	0640	G0100204	1
*OLX035	P	02-04-79	02-04-79	1664	1664	G0100204	1
*OLX037	P	02-04-79	02-04-79	1152	1152	G0100204	1
*OLX038	P	02-04-79	02-04-79	5504	5504	G0100204	1
*OLX039	P	02-04-79	02-04-79	5888	5888	G0100204	1
*OLX041	P	02-04-79	02-04-79	0640	0640	G0100204	1
*OLX042	P	02-04-79	02-04-79	0640	0640	G0100204	1
*OLX059	P	02-04-79	02-04-79	1024	1024	G0100204	1
*OLX060	P	02-04-79	02-04-79	1152	1152	G0100204	1
*OLX061	P	02-04-79	02-04-79	1280	1280	G0100204	1

