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GENERAL MANAGER
SANTA BARBARA PLANT

Distribution current as of 12/22/77

Burroughs Corporation



COMPUTER SYSTEMS GROUP
SANTA BARBARA PLANT

2219 0409

SYSTEM/ICMD.INIT

PRODUCT SPECIFICATION

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
A	8/17/77	<i>J. Hale</i>	Original Release - Mark VII.0 Level
B	1/4/78	<i>J. Hale</i>	1-1: Explicitly defined "bad sector" in INITIALIZATION STANDARDS. 2-1: Added ALREADY to message 2 of USER OPTION OFF section. 2-2: Changed (BLANK FOR BRRGHS) to OR LEAVE BLANK in message 5 of USER OPTION OFF section. Added ALREADY to message 2 of USER OPTION ON section. Changed DEF PAT OF 6363 to DEFAULT OF @6363@ in message 4 of USER OPTION ON section. Changed (BLANK FOR BRRGHS) to OR LEAVE BLANK in message 7 of USER OPTION ON section. 3-1: Changed DEF PAT OF 6363 to DEFAULT OF @6363@ in message 3 of ERROR MESSAGES section.

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SANTA BARBARA PLANT

COMPANY CONFIDENTIAL
SYSTEM/ICMD.INIT
P. S. 2219 0409 REV. 8

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INTRODUCTION

SYSTEM/ICMD.INIT, which runs under the VII.0 MCP II, is a SDL program which is designed to initialize, verify and label flexible disk cartridges before they are used with B1800/B1700 systems software. The program assigns addresses to the appropriate sectors, writes a given pattern in the sector data area, and reads these patterns back to insure that the sectors are not defective.

INITIALIZATION STANDARDS

If a sector on a flexible disk cartridge cannot be read after ten retries or cannot be written after two attempts, whether the error be a sector address error or data error, that sector is considered bad and the entire track is relocated on a spare track. Relocation involves filling in the bad track code and assigning the next track toward the center with the number of the previous track. A flexible disk cartridge is rejected as a bad diskette and is not useable if there are more than two defective tracks on the cartridge.

RELATED DOCUMENTATION

<u>NAME</u> ----	<u>NUMBER</u> -----
B1800/B1700 Software Operational Guide	1068731
B1800/B1700 MCP II	P.S. 2212 5462
Recorded Flexible Disk Cartridge	P.S. 2027 1532

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OPERATING INSTRUCTIONS

The SYSTEM/ICMD.INIT program operates under control of the MCP and is executed through a keyboard console (SPO). A listing is produced containing the test pattern, relocated tracks, and any errors that occur during program execution. Executing the program with the USER option on, (SW=1), gives users the option of choosing their own test patterns.

KEYBOARD CONSOLE (SPO)

When executing, SYSTEM/ICMD.INIT responds with a set of messages followed by an ACCEPT message for each. With each valid response the next message in sequence is displayed.

If an incorrect response is encountered, an appropriate error message is displayed and the response is requested again. (See ERROR MESSAGES section).

USER OPTION QFF

The default pattern 263632 will be used to test the diskette when SW=0.

1. ENTER UNIT NAME, FD<?>
2. DISKETTE ON UNIT FD<?> IS ALREADY INITIALIZED, ENTER Y FOR RE-INIT (BLANK FOR EOJ)

This appears if the diskette has already been initialized. A "Y" response continues the program, otherwise the program terminates leaving the diskette intact.

3. FOR INTERLACED ADDRESSES ENTER Y (BLANK FOR SEQUENTIAL)

A "Y" response interlaces the sector addresses in the following order: 1, 14, 2, 15, 3, 16 ... 13, 26. Interlaced addresses may reduce access time depending on how the disk is accessed or used.

4. DISKETTE GOOD

This appears if the diskette has been successfully initialized. The standard pattern 2E5E52 is written on the disk and then the volume ID is requested.

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5. ENTER 1 TO 6 ALPHANUMERIC CHARACTERS FOR VOLUME ID OR LEAVE BLANK

USER OPTION ON

Users may select their own hexadecimal pattern to test the diskette when SW=1.

1. ENTER UNIT NAME, FD<?>
2. DISKETTE ON UNIT FD<?> IS ALREADY INITIALIZED. ENTER Y FOR RE-INIT (BLANK FOR EOJ)
3. FOR INTERLACED ADDRESSES ENTER Y (BLANK FOR SEQUENTIAL)
4. ENTER PATTERN - 4 HEX NUMBERS (BLANK FOR DEFAULT OF 263632)

Four hex digits are required; otherwise, the default pattern of 263632 is used.

5. DISKETTE GOOD
6. FOR RETRY PATTERN ENTER Y (BLANK FOR EOJ)

A "Y" response will cause the program to continue and messages (4) through (6) repeated. A blank causes the diskette to be written with the standard pattern of 2E5E52 and then the volume ID is requested.

7. ENTER 1 TO 6 ALPHANUMERIC CHARACTERS FOR VOLUME ID OR LEAVE BLANK

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ERROR MESSAGES

1. INVALID UNIT NAME, RE-ENTER

Unit name was not of the format FD<x>, where <x> designates the drive upon which the diskette is mounted.

2. **ERROR**PORT AND CHANNEL NOT ASSIGNED

Unit cannot be accessed, program will terminate with diskette intact. Check for power ON and diskette in specified drive.

3. ILLEGAL PATTERN - RE-ENTER 4 HEX NUMBER (BLANK FOR DEFAULT OF 263632)

Each number must be between 0 and F.

4. PATTERN TOO LONG, RE-ENTER

Pattern must be four digits in length.

5. **ERROR**I/O OPERATION NOT COMPLETE

The control for this unit is hung and this program must be terminated. Diskette may be altered.

6. FD<?> NOT READY, ENTER Y FOR RETRY(BLANK FOR EOJ)

A "Y" response will retry the current operation and a blank will terminate the program. The diskette may be altered. Check for power ON and door closed.

7. **ERROR**MORE THAN 2 BAD TRACKS

Program will terminate, diskette is not useable.

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