


B1700 SOFTWARE SPECIFICATIONS

<u>Rel</u>	<u>Detroit</u>	<u>Rel</u>	
x	J. Cox - Corp. Prod. Mgmt.	x	D. Hill - TC, BM & SS
x	E. D. Earnest - CSG	x	V. Morton - GPS, BM & SS
x	B. Gould - International	x	E. A. Paulsen - TIO
x	H. R. Hayde - International	x	J. Shifman - CSG
x	W. Conlin - International	x	C. Nash - International
x	D. Kosinski-Prod. Mgmt.	x	J. G. Cleary - SSG
<u>Rel</u>	<u>Plymouth</u>	<u>Rel</u>	<u>Villers</u>
x	D. O. Calkins	x	J. Cazanove
x	D. R. Bookwalter	<u>Rel</u>	<u>Pantin</u>
<u>Rel</u>	<u>Downingtown</u>	x	J. Gerain
x	J. Berta	<u>Rel</u>	<u>Seneffe</u>
<u>Rel</u>	<u>Paoli</u>	x	P. Cornil
x	W. Minarcik	<u>Rel</u>	<u>Liege</u>
x	G. Smolnik	x	J. C. Wery
<u>Rel</u>	<u>McLean</u>	x	A. W. Fell
x	A. Kosla	x	R. Bouvier
<u>Rel</u>	<u>Irvine</u>	<u>Rel</u>	<u>Middlesex</u>
x	L. DeBartello	x	P. R. Evans
<u>Rel</u>	<u>Pasadena</u>	<u>Rel</u>	<u>Glenrothes</u>
x	R. Solt	x	J. C. Allan
x	H. M. Townsend	<u>Rel</u>	<u>Wayne</u>
x	D. B. Prout - Patent Atty.	x	B. Bell
<u>Rel</u>	<u>Mission Viejo</u>	<u>Rel</u>	<u>Santa Barbara</u>
x	R. Waychoff	x	R. S. Bunker
x	E. Sweaney	3	A. Goodman
<u>Rel</u>	<u>Westlake</u>	x	J. Hale
x	J. J. Dowling	x	K. Meyers
<u>Rel</u>	<u>Gennevieliers</u>	x	A. van der Linden
x	A. Isola	2	J. Casey
<u>Rel</u>	<u>Cumbernauld</u>	2	E. Munsch
x	W. McKee	x	E. Yardi
x	G. Dragffy	x	Quality Assurance
		x	G. Hammond
		x	R. Bauerle
		x	A. Yardi

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GENERAL MANAGER
 SANTA BARBARA PLANT

2/21/76
 4/7/76


Burroughs Corporation



BUSINESS MACHINES GROUP
SMALL SYSTEMS PLANT

STANDALONE / INTERCHANG

PRODUCT SPECIFICATION

REVISIONS

REV LTR	REVISION ISSUE DATE	PAGES REVISED ADDED DELETED OR CHANGE OF CLASSIFICATION	PREPARED BY	APPROVED BY
A	3/15/76	Original Issue	K. M. K.	

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GENERAL MANAGER
SANTA BARBARA PLANT

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GENERAL

The program STANDALONE/INTERCHANG copies an interchange formatted disk pack received from either a medium or large system and converts it to B1700 internal format since the B1700 MCP cannot directly handle interchange format. Using two packs insures that the user will retain the unaltered original pack should a hardware or software problem occur during the conversion process, "interchange". The program also provides for the reverse procedure, that is, conversion from B1700 internal format to interchange format.

The interchange format used is that described in Section 5 of P.S. 1955 2892, STRUCTURES OF INTERCHANGE MEDIA.

RELATED DOCUMENTATION

B1700 MCPII (Rev. A)	P. S. 2212 5462
B1700 SYSTEM/DISK.INIT (Rev. A)	P. S. 2212 5488
STRUCTURES OF INTERCHANGE MEDIA (Rev. A)	P. S. 1955 2892

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OPERATING INSTRUCTIONS

The interchange conversion program, STANDALONE/INTERCHANG, operates in STANDALONE mode without control of the MCP. All I/O operations are directed from the TTY SPO. This program cannot be used with the CRT SPO.

SET UP

STANDALONE/INTERCHANG requires that the destination pack be a "scratch pack". For output to B1700 format, the pack must be "PURGED" prior to use. For output to INTERCHANGE format, the pack must be initialized as an interchange pack prior to use. SYSTEM/DISK.INIT optionally initializes a pack for the INTERCHANGE format.

SPO I/O

When executed, STANDALONE/INTERCHANG responds with a set of messages followed by ACCEPT messages. This message string is as follows:

1. The following messages inform the user that the cassette from which STANDALONE/INTERCHANG was loaded may now be rewound. The date of compilation of the program is also displayed.

REWIND CASSETTE
DISKPACK INTERCHANGE/B1700 CONVERSION UTILITY
MARK VI.0.1 (STANDALONE) DATED <compile date>

2. WHICH PACK (SOURCE OR DESTINATION) IS B1700 FORMAT?
(ANSWER 'S' OR 'D')
 - a. 'D' (DESTINATION) or BLANK converts the pack from interchange to B1700.
 - b. 'S' (SOURCE) converts the pack from B1700 to interchange.
3. ENTER SOURCE PACK DRIVE (A, B, C, ETC.)

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The drive entered will be the drive on which the source (input) pack is to be found.

4. ENTER DESTINATION PACK DRIVE (A, B, C, ETC.)

The drive entered will be the drive on which the destination (output) pack is to be found.

NOTE: Under no circumstances can the drives named as source and destination be the same.

5. After a valid destination pack has been found, "INTERCHANGE" will commence. Please refer to Section 3 for exceptions or errors. Upon completion of "INTERCHANGE", the following message will appear:

COMPLETION OF INTERCHANGE

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ERRORS AND EXCEPTIONS

INCOMPATIBILITIES

Because of format differences between B1700 and interchange packs, certain files are impossible to copy. These files will not be copied, but Interchange will continue on valid files. These are noted below:

INTERCHANGE TO B1700

1. **MULTI-PACK FILES:** A file containing multipack areas will not be copied.

MESSAGE: FILE <file name> CONTAINS MULTI PACK LINKS

2. Files with greater than 105 areas will not be copied.

MESSAGE: FILE <file name> EXCEEDS 105 AREAS

B1700 TO INTERCHANGE

1. A file containing multi pack areas will not be copied.

MESSAGE: FILE <file name> CONTAINS MULTI PACK LINKS

2. A file with a name longer than six characters will not be copied.

MESSAGE: FILE <file name> EXCEEDS 6 CHARACTERS

3. All files in a file family (<multi name>/<file name>) will not be copied.

MESSAGE: FILE <multi name> IS MULTI FILE NAME

4. Files with variable length records will not be copied. This is specifically because Interchange does not allow for variable length records.

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MESSAGE: FILE <file name> IS VARIABLE LENGTH

DISK ERRORS

The following disk errors will be reported:

1. Error on input pack in a file. The file with the error will be skipped, with Interchange continuing on the next file.

MESSAGE: DISK ERROR AT <sector address> ON FILE <file name>

2. Error on output pack. The sector will be removed from the pack's master available table. Processing will continue.

MESSAGE: TOO MANY ERRORS AT SECTOR <sector address>
 SECTOR REMOVED

3. If no packs exist on the drives specified, or a pack is not ready, a message will be displayed.

MESSAGE: COULD NOT FIND SOURCE PACK
 MESSAGE: COULD NOT FIND DESTINATION PACK

4. If a disk error is found in the directory or available table of either pack, the error will be reported and all Interchange processing will be halted.

MESSAGE: DISK ERROR AT <sector address> ON INPUT DRIVE
 MESSAGE: DISK ERROR AT <sector address> ON OUTPUT DRIVE

FORMAT ERRORS

1. If the destination pack is not a scratch pack or not initialized, the following message appears.

MESSAGE: DESTINATION PACK NOT AN INITIALIZED PACK

2. If the source and destination packs are switched, or a copy is attempted in the wrong direction, or the source pack is not a valid pack, this message is displayed.

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MESSAGE: ERROR IN PACK LABEL, CAN'T CONTINUE

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