Burroughs Corporation COMPUTER SYSTEMS GROUP SANTA BARBARA PLANT

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Product Specifications

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Burroughs Corporation



COMPUTER SYSTEMS GROUP SANTA BARBARA PLANT

INTRINSICS/AGGR. MAKER

PRODUCT SPECIFICATION

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	R E V LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS AUG - 7 1980
	A	1/28/77	Hale	Original Issue. Mark VI.1 level. GENERAL MANAGER SANTA BARRAGA PLANT
	В	7/1/77	Adole	Additional VI.1 Updates
			0 1000	All references to BAS.INTRN2 replaced with BAS.INTRN3.
	C	7/29/80	Have	Changes for MARK 10.0 Release
ı	٠.		V	1-1 Updated "The aggregate file" paragraph.
				2-2 Updated "Dollar-sign cards" paragraph. Updated "ADD" Option.
				2-3 Updated "DELETE" Option. Added "ANALYZE, ANALYZE.NEW, COMPARE, COMPARE.AGGR" Options.
	3			2-4 Added "INTERNAL FILE NAMES" and "FUNCTIONS".
				2-5 Changed "CARD STRUCTURE" to "IMAGE STRUCTURE." Updated "FAMILY.NAME" file name.
	i X			Updated "FILE.ID" file name.
				3-1 Added "SAMPLE EXECUTE FROM ODT" operating instruction.
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INTRODUCTION

GENE RAL

The INTRINSICS/AGGR.MAKER program is a utility program. Its main function is to collect compiler intrinsics, either SDL or BASIC, into one file that can be accessed under a single file name. The program can also be used to add new intrinsics to, or delete old intrinsics from, the existing aggregate file.

The aggregate file is called <mfid>/AGGREGATE where <mfid> is one of the appropriate compiler family names (e.g., SDL.INTRIN or BAS.INTRN3) and the individual intrinsics are appropriately numbered or named. The program expects all the specified intrinsics to be present on the system disk, unless modified by the user (see Switch settings). After the aggregate file has been made, the individual intrinsics may be removed.

RELATED PUBLICATIONS

Name				Nusb.	ēŢ	
BASIC Compiler					2212	
SDL Compiler Software Development	Language	CONE	Wannian)		2212	
Software Operational		CONT	464.21011)		10687	

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SIRUCTURES AND OPTIONS

EILE SIRUCIURE

The structure of the aggregate file is:

PPB

Three sectors.

NAME .TABLE

Two sectors. The NAME.TABLE contains the second names of the BASIC or SDL intrinsics. The SDL intrinsic names are truncated in the table to the three least significant characters. BASIC intrinsics are named by the appropriate three-letter identifier.

SEGMENT-DICTIONARY

Five sectors. Each entry is 64 bits long in the NORMAL.DESCRIPTOR format. The ND.CORE entry indicates the sector number in the file of the particular intrinsic. The ND.LENGTH shows the length of the intrinsic in bits, or bytes, depending on the code in ND.TYPE.

FORMAT

The code files are copied one after another, sequentially.

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DOLLAR-SIGN OPIIONS

Dollar-sign options must contain a "\$" as the first token and one of th following options. They are grouped according to type and listed in alphabetical order:

CREATING THE AGGREGATE FILE

OPTION

OPERATION

CREATE

builds a <mfid>/AGGREGATE file. The next card in the deck must contain the FAMILY.NAME of the intrinsics to be merged into the aggregate file. On subsequent cards, the appropriate file.ids must be entered. See IMAGE STRUCTURE.

MODIEYING THE AGGREGATE FILE

OPIION

OPERAJION

ADD

allows new intrinsics to be added to the <mfid>/AGGREGATE file. The input card deck must contain the names of the intrinsics which are to be added to the file. The new intrinsics will be ordered with the existing file of intrinsics to form a new <mfid>/AGGREGATE.

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ADD. NEW

performs the same activity as ADD but does not remove the old <mfid>/AGGREGATE file. It closes the new file with the name <mfid>/NEW-AGGR, which allows <mfid>/AGGREGATE to remain on disk.

DELE TE

specified removes the intrinsics from AGGREGATE file. The new file is closed with the name <mfid>/ AGGREGATE and the original file is removed. The program creates a new file which those intrinsic mames and pointers corresponding to the names in the card input the Name Table deleted from and · the Segment Dictionary.

DELETE.NEW

performs the same activity as DELETE but closes the new aggregate file with the name <mfid>/NEW-AGGR, which allows the old aggregate file to remain on disk.

ANAL YZE

lists the contents of the NAME-TABLE and the SEGMENT-DICTIONARY for the <mfid>/AGGREGATE file.

ANALYZE. NEW

lists the contents of the NAME-TABLE and the SEGMENT-DICTIONARY for the <mfid>/NEW-AGGR file-

COMPARE

compares the <mfid>/AGGREGATE to the intrinsics that are on disk.

COMPARE.AGGR

compares the <mfid>/AGGREGATE to the <mfid>/NEW-AGGR-

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SWITCH	SETTING	FUNCTION
0	0 1	CARD INPUT ODT INPUT FOR SPECIFICATIONS. (See example page 3-1.)
1	0 1	USE DEFAULT NAMES. USE THE FILE EQUATED NAMES.
2	0	THIS IS A SDL.INTRIN AGGREGATE. THIS IS A BAS.INTRN3 AGGREGATE.
3	0 1 2 3 4 5 6 7 8 9	ACTION WILL BE SPECIFIED. CREATE DELETE ADD ANALYZE NOT USED COMPARE COMPARE.AGGR DELETE.NEW ADD.NEW ANALYZE.NEW
INTERNAL FILE NAMES	FUNCTION	
INTRIN	Intrinsics input fi	Te. *
COPY	The output aggregat	
MASTER	The input aggregate	
CARDS	The specification c	ards (if switch 0 = 0).
LINE	Printer output fo COMPARE, and COMPAR	r the ANALYZE, ANAYLZE.NEW, E.AGGR options.

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IMAGE STRUCTURE

File names for any of the above options should be specified as follows:

FAHILY - NA ME

SDL-INTRIN or BAS-INTRN3.

FILE . ID

Appropriate file-id of the individual SDL intrinsics are identified by the three least significant digits (000 through Q14) and BASIC intrinsics are specified by the three-character identifier (e.g., CAT). Note that more than one intrinsic can be specified at a time.

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OPERATING INSTRUCTIONS

The program should be executed using the execute-deck format which is given below.

EXECUTE DECK FORMAT

? EXECUTE INTRINSICS/AGGR.MAKER;
? DATA CARDS
\$ <dollar-sign option>
<intrinsic family-name>
<intrinsic file-name>

<intrinsic file name>
? END

SAMPLE EXECUTE DECK

? EX INTRINSICS/AGGR.MAKER; ? DA CARDS \$ CREATE SDL.INTRIN 000 ... 014 ? END

SAMPLE EXECUTE FROM ODT

? EX INTRINSICS/AGGR.MAKER SN 0 = 1;
INTRINSICS/AGGR.MAKER = <JOB NO.> BOJ.
<JOB NO.> ENTER SPEC
<JOB NO.> ACCEPT.
<JOB NO.> AX \$ ADD SDL.INTRIN 006
<JOB NO.> ENTER SPEC
<JOB NO.> ACCEPT
<JOB NO.> ACCEPT
<JOB NO.> AX
INTRINSICS/AGGR.MAKER = <JOB NO.> EOJ.

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