

JOE TEMPLEMAN

SPD	BIN	LIST PRODUCTS in BIN NUMBER SEQUENCE
145	00-	BIN (I/O) at 0020- BIN (Printer) at 0900- } <i>Entry points (6 sectors)</i> BIN+ (Printer) at 0600-
Page: 0	Col: 00-	

Step						Step	
00				→ Product File Buffer (16 records)	0400-	00	
01				→ Top of Product File Buffer	2400-	01	
02				→ Sat Work Buffer (64 records)	2400-	02	
03	Object References			→ Top of Sat Work Buffer	3400-	03	
04				→ First Bin No. (5/00)	3401-	04	
05				→ Last Bin No. (9/00)	3402-	05	
06						06	
07						000000	07
10				LINES PER PAGE	27	000033	10
11				SORT FILE ID		000210	11
12				Sort Follow - on Pgm Name	{ B I		12
13				"BIN+"	{ N +		13
14				Min. Bin No.	0/000	000000	14
15				Max. Bin No.	65/535	177777	15
16							16
17							17
20	KDA	Z	0377	BIF (any Plain Text Q)	*BIN (I/O)		20
21	JSR	JL	1613	Specify Print Q			21
22	JSR	JL	1652	Print Title			22
23	P= 0500-						23
24	JSR	JL	1634	Specify Equip Point	*Next Job		24
25	P= 0026-						25
26	JSR		0400	DEFINE JOB			26
27	JSR	JL	1640	SPLIT "Process?"			27
30	P= 0476-						30
31	STRIP			No.			31
32	JSR	JL	1651	SPool BPOST			32
33	→ J400P		0024	also Next Job.			33
34							34
35							35
36							36
37							37
40							40
41							41
42							42
43							43
44							44
45							45
46							46
47							47
50							50
51							51
52							52
53							53
54				→ FSB, Sat Work File		/	54
55				Max Slot No., Sat Work File		/	55
56				→ Current Product Record		/	56
57				MAX PRODUCT No.		/	57
60				WIS			60
61				BIN NUMBER			61
62				PRODUCT NUMBER			62
63	SORT RECORD WIS						63
64							64
65							65
66							66
67							67
70						000000	70
71				Read Sectors of Product File	{ R, Sector, Disc No.	/	71
72					{ → Buffer 0400-		72
73					{ Start Sector	/	73
74	Next Bay					000000	74
75	Line Record, Current Key			Write 4 sectors of Sat Work File	{ W, Sector, Disc No.	/	75
76	Current Sat Record No.				{ → Buffer 2400-		76
77	Line Record Count, Sat Work				{ Start Sector	/	77

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SPD BIN
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Step						Step
00	*ENTRY			INITIALIZE PRODUCT SCAN	← PA →	00
01	JSR	IL	1700	Extract		01
02	P _i = 1, 014			Product FCB Word 1	000414	02
03	ANDA	Z	1752	Bottom Byte (Disc No.)		03
04	JORA	Z	0344	004000 (8 sectors)		04
05	STA		0071			05
06	ADB	Z	0202	CF2		06
07	LDA	IL	B	FCB Word 3 (Min. Product No.)		07
10	DECA					10
11	STA		0062	Current Product No.		11
12	RSR4			÷ 16 (Blocking Factor)	001504	12
13	LSA3			x 8 (sectors per block)	001703	13
14	STA		0073	(save)		14
15	INCB					15
16	LDA	IL	B	FCB Word 4 (Max. Product No.)		16
17	STA		0057			17
20	ADB	Z	0203	CF3		20
21	LDA	IL	B	FCB Word 7 (Base Sector)		21
22	ADA		0073			22
23	STA		0073	= Start sector, block containing Min. Product		23
24	LDA		0062	Min. Product - 1		24
25	ANDA	Z	0217	(leaves read no. within block)		25
26	LSA6			x 64 (Block Length)	001706	26
27	ADA		0000	0400 - → buffer		27
30	STA		0056	→ Current Product Record		30
31	JSR	IL	1615	TRANSFER (Read First Block)		31
32	P _i = 0070-					32
33	LDA		0011	Start FCB Ind.		33
34	JORA	Z	0323	000400		34
35	STA		0137			35
36	JSR	IL	1700	Extract		36
37	P _i = 1, /			Start Word FCB Word 1		37
40	ANDA	Z	1752	Bottom Byte (Disc No.)		40
41	JORA	Z	0341	002000 (4 sectors)		41
42	STA		0075			42
43	ADB	Z	0203	CF3		43
44	LDA	IL	B	FCB Word 4		44
45	STA		0055	Max. Slot No., Start Word FCB		45
46	ADB	Z	0203	CF3		46
47	LDA	IL	B	FCB Word 7		47
50	STA		0077	= Start Sector No.		50
51	INCB					51
52	LDB	IL	B	FCB Word 8		52
53	STB		0054	→ FCB, Start Word FCB		53
54	CLA			∅ → Live record count		54
55	STA	IL	B			55
56	JSR	IL	1667	Slow Control Record		56
57	LDA		0002	2400 - → Start Word Buffer		57
60	STA		0361	Next Start Buffer Pointer		60
61	JUMP	I	0100	Return.		61
62						62
63						63
64						64
65						65
66						66
67						67
70						70
71						71
72						72
73						73
74						74
75						75
76						76
77						77

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145 02-
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Step						Step
00	Noop				* BIN (Printer)	00
01	LDA	IL	0067	3400-	Issuing Task No. and Print Completion Word.	01
02	JSBR	IL	1725	STA		02
03	P1=3742-					03
04	JSBR	IL	1710	Clear Gte		04
05	P1=0060-					05
06	P2=8 cards				000010	06
07	JSBR		0100	INITIALIZE PRODUCT SCAN		07
10	JSBR		0300	PRODUCT SCAN		10
11	JSBR		0331	FLUSH Sort Buffer		11
12	JSBR	IL	1667	STOW Control Word		12
13	LDA		0011	Sort File Id.		13
14	Noop					14
15	STA		0221			15
16	JSBR	IL	1670	FETCH & LINK Sort Utility		16
17	P1=002002					17
20	P2=0/0225			Module 025		20
21	P3=			Sort File Id.		21
22	P4=0012-			→ Follow on Page Maxco "BIN+"		22
23						23
24						24
25						25
26						26
27						27
30	* ENTRY			PROCESS LIVE PRODUCT	← BA →	30
31	LDB		0056	→ Product		31
32	ADB	Z	0220			32
33	LDA	IL	B	= Bin No.		33
34	CMPA	I	0004	3401- First Bin No.		34
35	JUMP		0244	Include.		35
36	SKGT					36
37	JUMP	I	0230	Return - exclude.		37
40	CMPA	I	0005	3402- last Bin No.		40
41	Noop					41
42	SKNGT					42
43	JUMP	I	0230	Return - exclude.		43
44	STA		0061	Bin No.		44
45	JSBR		0352	DESPATCH SORT RECORD		45
46	JUMP	I	0230	Return.		46
47						47
50						50
51						51
52						52
53						53
54						54
55						55
56						56
57						57
60						60
61						61
62						62
63						63
64						64
65						65
66						66
67						67
70						70
71						71
72						72
73						73
74						74
75						75
76						76
77						77

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SPD BIN
145 03-
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(Extract Area for Product Record)

Step						Step
00	* ENTRY			PRODUCT SCAN	← BA →	00
01	LDA		0062	Previous Product	← NEXT PRODUCT	01
02	CMPA		0057	Max Product		02
03	JUMP	I	0300	Return - File dup.		03
04	INSZ		0062	Correct Product		04
05	LDA		0056	→ Correct Product		05
06	CMPA		0001	2400 - → Top of Product Buffer		06
07	JSR		0320	ADVANCE PRODUCT BUFFER		07
10	LDA	I	0056	= First Word of Correct Product Record		10
11	CMPA		0062	Correct Product		11
12	JSR		0320	PROCESS LIVE PRODUCT		12
13	LDA		0056			13
14	ADA	Z	0302	CF64 } Advance to next Product Record		14
15	STA		0056			15
16	JUMP		0301	skip next Product.		16
17						17
20	* ENTRY			ADVANCE PRODUCT BUFFER	← BA →	20
21	LDA		0073			21
22	ADA	Z	0210	CF8 } + 2 registers		22
23	STA		0073			23
24	JSR	IL	1615	TRANSFER		24
25	R = 0070 -					25
26	LDA		0000	0400 - } wrap around		26
27	STA		0056	→ Correct Product		27
30	JUMP	I	0320	Return.		30
31	* ENTRY			FLUSH SORT BUFFER	← BA →	31
32	LDA		0075			32
33	ANEG					33
34	JUMP	I	0331	Return (unupdates in blue block).		34
35	JSR	IL	1615	TRANSFER (Load Sort Buffer)		35
36	R = 0074 -					36
37	LDA		0075			37
40	CISA			"Read"		40
41	STA		0075			41
42	JUMP	I	0331	Return.		42
43	* ENTRY			ADVANCE SORT BUFFER	← BA →	43
44	JSR		0331	FLUSH Old Buffer		44
45	LDA		0077			45
46	ADA	Z	0204	CF4 } + 4 registers		46
47	STA		0077			47
50	LDA		0002	2400 - → Set Work File Buffer		50
51	JUMP	I	0343	Return.		51
52	* ENTRY			DISPATCH SORT RECORD	← BA →	52
53	LDA	I	0054	Live Record Count		53
54	CMPA		0055	Max Slot No., Sort Work File		54
55	JSR	IL	1777	HALT (Sort Work File is full).		55
56	INSZ	I	0054	Live Record Count		56
57	JSR	IL	1707	Done		57
60	R = 0060 -					60
61	R = /			SORT BUFFER POINTER		61
62	R = 8 words				000010	62
63	LDA		0075			63
64	CISA/CMPSA			"Write"		64
65	STA		0075			65
66	LDA		0361			66
67	ADA		0362	Record Length		67
70	CMPA		0003	3400 - Top of Sort Buffer	} Advance Buffer Pointer	70
71	JSR		0343	Advance Sort Buffer		71
72	STA		0361			72
73	JUMP	I	0352	Return.		73
74						74
75						75
76						76
77						77

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Step						Step
00	* ENTRY			DEFINE JOB	← BA →	00
01	LDA		0014	Min. Bin No.	} preset range to limits	01
02	STA	I	0004	3401-		02
03	LDA		0015	Max. Bin No.		03
04	STA	I	0005	3402-		04
05	JSR	JL	1765	First Bin No → ASCII		05
06	R=3,3,1,7				031507	06
07	R=3401-					07
10	B=0537-					10
11	LDA	Z	0257	"1"		11
12	JSR	JL	1775	Space Char		12
13	R=0540-					13
14	JSR	JL	1640	GET "From Bin No min/max (or ACP)"		14
15	R=0471-					15
16	JSR		0450	ACP?		16
17	JCOMP	I	0400	Yes-Return.		17
20	LDA	I	0004	3401- First Bin No.	} setup default range	20
21	ADA	Z	0337	CF999		21
22	ANEG					22
23	STA	I	0005	3402- Last Bin No.		23
24	JSR	JL	1765	Last Bin No. → ASCII		24
25	R=3,3,1,7				031507	25
26	R=3402-					26
27	R=0553-					27
30	LDA	Z	0257	"1"		30
31	JSR	JL	1775	Space Char		31
32	R=0554-					32
33	JSR	JL	1640	GET "Up to min/max?"		33
34	R=0463-					34
35	JCOMP	I	0400	Return.		35
36						36
37						37
40						40
41						41
42						42
43						43
44						44
45						45
46						46
47						47
50	* ENTRY			ACP?	← BA →	50
51	A=0					51
52	JCOMP		0455			52
53	JINSZ		0450	(Steps)		53
54	JCOMP	I	0450	Return (numeric input).		54
55	CTPA	Z	1200	"A"		55
56	OR/STEP					56
57	JCOMP	JL	1641	Error		57
60	JCOMP	I	0450	Return (ACP recognized).		60
61						61
62						62
63					044103	63
64				05471-	} Min. 3401- Max. 0015-	64
65				3402-		65
66				3401-		66
67				0015-	67	
70				P0 011402		70
71					054503	71
72				GET "From Bin No (or ACP)"	05302-	72
73					3401-	73
74					3401-	74
75					0015-	75
76				SPLIT "Process?"	300000	76
77					05232-	77

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145 05-
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Step						Step	
00					CR P	00	
01					R I	01	
02					N T	02	
03					SP P	03	
04					R O	04	
05					D Y	05	
06					C T	06	
07					S SP	07	
10					B Y	10	
11				"Print Products by Bin for Stock Check"	SP B	11	
12					I N	12	
13					SP F	13	
14					O R	14	
15					SP S	15	
16					T O	16	
17					C K	17	
20					SP O	20	
21					H E	21	
22					C K	22	
23				MUL CR	23		
24				P R	24		
25				O C	25		
26				E S	26		
27				S ?	27		
30				MUL CR	30		
31				F R	31		
32				O M	32		
33				SP B	33		
34				I N	34		
35				SP N	35		
36				O SP	36		
37				"From Bin Name/Num (or Acc)"	First Bin No. {	37	
40							40
41							41
42						(42
43						O R	43
44						SP A	44
45						L L	45
46) SP	46
47						MUL SP	47
50						SP U	50
51				P T	51		
52				O SP	52		
53				"Left Bin Num?"	Last Bin No. {	53	
54							54
55							55
56						?	56
57						SP MUL	57
60					60		
61					61		
62					62		
63					63		
64					64		
65					65		
66					66		
67					67		
70					70		
71					71		
72					72		
73					73		
74					74		
75					75		
76					76		
77					77		

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Step					Step	
00	NOOP			* BIN+ (Printer)	00	
01	LDA		0011	Sort File Id	01	
02	STA		0635		02	
03	JORA		0606		03	
04	STA		0606		04	
05	JSBR	JL	1700	Extract FSB Word 1, Sort Word	05	
06	P ₁ =1,8,000				014000	06
07	STA		0077	No. of Line Records	07	
10	CIA				10	
11	JSBR	JL	1725	STA Connect Page No.	11	
12	P ₁ =3770-				12	
13	STA		0076	Connect Sort Record No.	13	
14	STA		0074	Next Bay	14	
15	JUMP		0627		15	
16					16	
17					17	
20					20	
21					21	
22					22	
23					23	
24					24	
25					25	
26					26	
27	JSBR		0650	INITIALIZE HEADINGS	27	
30	LDA		0076	Previous Slot No. *NEXT RECORD	30	
31	CHPA		0077	Line record count	31	
32	JUMP	Z	1402	Address.	32	
33	JNSZ		0076	Connect slot No.	33	
34	JSBR	JL	1670	FETCH Sort Record	34	
35	P ₁ = /				35	
36	P ₂ = 0076-				36	
37	P ₃ = 0060-				37	
40	JSBR		1000	PROCESS PROXIMITY	40	
41	JUMP		0630	and next record.	41	
42					42	
43					43	
44					44	
45					45	
46					46	
47					47	
50	* ENTRY			INITIALIZE HEADINGS	← BA →	50
51	JSBR	JL	1765	First Bin → ASCII		51
52	P ₁ = 3,3,1,7				031507	52
53	P ₂ = 3401-					53
54	P ₃ = 1111½-					54
55	LDA	Z	0257	"1"		55
56	JSBR	JL	1775	Store Oct		56
57	P ₁ = 1112½-					57
60	JSBR	JL	1765	Last Bin → ASCII		60
61	P ₁ = 3,3,1,7				031507	61
62	P ₂ = 3402-					62
63	P ₃ = 1116½-					63
64	LDA	Z	0257	"1"		64
65	JSBR	JL	1775	Store Oct		65
66	P ₁ = 1117½-					66
67	JUMP	I	0650	Return.		67
70						70
71						71
72						72
73						73
74						74
75						75
76						76
77						77

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Step					Step
00	*ENTRY			NEWLINE	← BA → 00
01	LDA		0061	Bin No.	01
02	CMPA		0074	Next Busy	02
03	SKIP				03
04	→ SKNGT				04
05	JSBR ←		0750	NEW BAY (Force New Page)	05
06	→ LDA		0075	Lines printed, this page	06
07	CMPA		0010	Lines per page	07
10	JSBR		0714	NEW PAGE	10
11	→ INSZ		0075	Lines printed, this page	11
12	JUMP	I	0700	Return.	12
13					13
14	*ENTRY			NEWPAGE	← BA → 14
15	CLA			{ clear lines printed, this page.	15
16	STA		0075		16
17	JSBR	JL	1707	0000 Headering (a)	17
20	R= 1100-				20
21	R= 3600-			(D)	21
22	B= 24 words				000030 22
23	JSBR	JL	0470	Date Time & Page → ASCII	23
24	R= 3655-			(F2)	24
25	CLA			(Full Feed)	25
26	JSBR	JL	1644	Print	26
27	JSBR	JL	1707	0000 Headering (b)	27
30	R= 1224-				30
31	R= 3624-			(A)	31
32	B= 34 words				000042 32
33	LDA	Z	0202	CF2	33
34	JSBR	JL	1644	Print	34
35	JSBR	JL	1707	0000 Headering (c)	35
36	R= 1300-				36
37	R= 3600-			(D)	37
40	B= 59 words				000073 40
41	LDA	Z	0201	CF1	41
42	JSBR	JL	1644	Print	42
43	JUMP	I	0714	Return.	43
44					44
45					45
46					46
47					47
50	*ENTRY			NEW BAY	← BA → 50
51	JSBR	JL	1745	÷ 10 with remainder	51
52	JSBR	JL	1745	" " " } ÷ 1000	52
53	JSBR	JL	1745	" " " }	53
54	STA		0074		54
55	JSBR	JL	1765	Busy → ASCII	55
56	R= 2,0,0,1,3				200103 56
57	R= 0074-				57
60	B= 1126-				60
61	INSZ		0074	Busy	61
62	CLA				62
63	ADA	Z	0340	CF1000 } x1000	63
64	DESZ		0074		64
65	JUMP		0763		65
66	→ APOS			Overflow (after Bay 65):	66
67	(CLA/CMPA			BIT+ 65/535 Yes.	67
70	→ STA		0074		70
71	LDA		0010	{ force new page	71
72	STA		0075		72
73	JUMP	I	0750	Return.	73
74					74
75					75
76					76
77					77

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Step					Step	
00	*ENTRY			PROCESS PRODUCT	← BA →	00
01	JSBR	JL	1670	PGT4 & TEST Product		01
02	P= 100014					02
03	R= 0062-					03
04	B= 0300-					04
05	Jump	I	1000	Return - not found		05
06	JSBR		0700	NEWSLINE		06
07	JSBR		1020	PRODUCT DATA → ASCII		07
10	LDA	Z	0202	CF2		10
11	JSBR	JL	1644	Print		11
12	Jump	I	1000	Return.		12
13						13
14						14
15						15
16						16
17						17
20	*ENTRY			PRODUCT DATA → ASCII	← BA →	20
21	JSBR	JL	1765	Product Code → ASCII		21
22	P= 0,0,1,C,6				000146	22
23	R= 0062-					23
24	B= 3663-			(103)		24
25	JSBR	JL	1637	Description → ASCII		25
26	P= 3603-			Ⓢ Target Data		26
27	R= 0304-			Source Reference		27
30	B= Z, 30000				200036	30
31	JSBR	JL	0461	Pack Size & Units → ASCII		31
32	P= 0301-					32
33	R= 3623-			Ⓢ		33
34	JSBR	JL	1625	Suspend		34
35	JSBR	JL	1765	Bin No. → ASCII		35
36	P= 3,3,1,7				031507	36
37	R= 0320-					37
40	B= 3600-			Ⓢ		40
41	LDA	Z	0257	"/"		41
42	JSBR	JL	1775	State Char		42
43	P= 3601-			Ⓢ		43
44	JSBR	JL	1765	Physical Stock → ASCII		44
45	P= 0,0,2,9				000211	45
46	R= 0351-					46
47	B= 3655-			Ⓢ		47
50	Jump	I	1020	Return.		50
51						51
52						52
53						53
54						54
55						55
56						56
57						57
60						60
61						61
62						62
63						63
64						64
65						65
66						66
67						67
70						70
71						71
72						72
73						73
74						74
75						75
76						76
77						77

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Heading (b)

Step					Step
00					00
01					01
02					02
03					03
04					04
05					05
06					06
07					07
10					10
11					11
12					12
13					13
14					14
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31				P I	31
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36				T O	36
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42				D	42
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57				P U	57
60				T E	60
61				R	61
62				P	62
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65			↓	C T	65
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JOE TEMPLEMAN

SPD BIN
145 13-

Heading (c)

Page:- 0 Col:- 13-

Step															Step
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SAD	BIN
145	34-
Page:-	1 Col:- 14-

Spool Buffer

Step					Step
00				ISSUING TASK NO.	00
01				FIRST BIN NUMBER	01
02				LAST BIN NUMBER	02
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