

OPERATING PARAMETERS

SOURCE CODE INPUT FILE: CARD DECK
OBJECT CODE OUTPUT FILE: INITIALIZE *SCRATCH1*, ON LOGICAL UNIT 00
SOURCE CODE WORK FILE: *SCRATCH2*, ON LOGICAL UNIT 00
XREF WORK FILE: *SCRATCH3*, ON LOGICAL UNIT 00

MACRO LIBRARIES: *MACROSLB*, ON LOGICAL UNIT 00

OPTIONS IN EFFECT: LIST
ESD
DECK
XREF
CANCEL

EXTERNAL SYMBOL DICTIONARY

SYMBOL	VALUE	TYRE	ESID	LENGTH
DISCBKSZ	003000	A	1	071F
EOF	003354	H	1	
PROV	0033A6	H	1	
DISCBKSZ	003000	J	1	
PTRR		K	3	
RDR		K	2	

ERRORS	LOC	OBJECT CODE	STMT	SOURCE STATEMENT
			28	*****
			29	*
			30	* CONTROL CARD PROCESSING LOOP
			31	*
			32	*****
			33	NEXTCARD GET RDR,CARD READ A CONTROL CARD
			36	MVI OF,1 RESET ALL INDICATORS
300E	92013619		37	MVI HD1+95,C*0*
3012	92F0345D		38	MVI ERRORS,0
3016	9200361A		39	MVC HD1+62(5),CARD RECRD SIZE
301A	D204343C33AE		40	CLC CARD(5),=CL5* IS RECORD SIZE OMITTED?
3020	D50433AE368A		41	BE BADRCSZ YES--ERROR
3026	4780308C		42	* CHECK RECRD SIZE FIELD FOR VALID NUMERICS (LEADING BLANKS ACCEPTED
			43	LH 8,=Y(CARD) R8 SCANS RECORD SIZE FIELD
302A	4880367A		44	MVI LEADBLNK,1 SET LEADING-BLANK INDICATOR
302E	9201361B		45	LBLNKR CLI 0(8),C* BLANK?
3032	95408000		46	BNE TESTDIGR NO--BLANKS ARE NO LONGER VALID
3036	47703046		47	CLI LEADBLNK,1 ARE LEADING BLANKS STILL VALID
303A	9501361B		48	BE NEXTDIGR YES--SKIP IT
303E	47803052		49	B BADRCSZ ERROR--EMBEDDED BLANK
3042	47F0308C		50	TESTDIGR MVI LEADBLNK,0 BLANKS ARE NO LONGER ACCEPTABLE
3046	9200361B		51	CLI 0(8),C*0* VALID NUMERIC DIGIT?
304A	95F08000		52	BL BADRCSZ NO--ERROR
304E	4740308C		53	NEXTDIGR AH 8,=H*1* NEXT DIGIT
3052	AA80367C		54	CH 8,=Y(CARD+5) HAVE ALL DIGITS BEEN CHECKED?
3056	4980367E		55	BL LBLNKR NO--CHECK THE NEXT ONE
305A	47403032		56	PACK RCSZ,CARD(5) VALID NUMERIC RECORD SIZE
305E	F224361C33AE		57	MVC HD1+61(6),ED5
3064	D205343B3613		58	ED HD1+61(6),RCSZ RECORD SIZE TO HEADING LINE
306A	DE05343B361C		59	LJRCSZ CLI HD1+62,C* LEFT-JUSTIFY SIGNIFICANT DIGIT
3070	9540343C		60	BNE RCSZ0
3074	47703082		61	MVC HD1+62(5),HD1+63
3078	D204343C343D		62	B LJRC SZ
307E	47F03070		63	RCSZ0 ZAP RCSZ,RCSZ IS RECORD SIZE ZERO?
3082	F822361C361C		64	BNZ GETKLEN NO--IT'S VALID SO FAR
3088	47703090		65	BADRCSZ DI ERRORS,1 RECORD SIZE ZERO OR NOT NUMERIC
308C	9601361A		66	* VALIDATE AND OBTAIN KEY LENGTH--SIMILAR TO RECORD SIZE ROUTINE ABOVE
3090	D20B3443368F		67	GETKLEN MVC HD1+69(12),=CL12*KEY LENGTH =*
3096	D202345D33B4		68	MVC HD1+82(3),CARD+6 KEY LENGTH

ERRORS	LOC	OBJECT CODE	STMT	SOURCE STATEMENT	
	309C	48803680	69	LH 8,=Y(CARD+6)	
	30A0	9201361B	70	MVI LEADBLNK,1	CHECK FOR LEADING BLANKS
	30A4	95408000	71	LBLNKK CLI 0(8),C' '	
	30A8	477030B8	72	BNE TESTDIGK	
	30AC	9501361B	73	CLI LEADBLNK,1	
	30B0	478030C4	74	BE NEXTDIGK	
	30B4	47F03108	75	B BADKLEN	
	30B8	9200361B	76	TESTDIGK MVI LEADBLNK,0	
	30BC	95F08000	77	CLI 0(8),C'0'	
	30C0	47403108	78	BL BADKLEN	
	30C4	AA80367C	79	NEXTDIGK AH 8,=H'1'	
	30C8	49803682	80	CH 8,=Y(CARD+9)	
	30CC	474030A4	81	BL LBLNKK	
	30D0	F212361F33B4	82	PACK KLEN,CARD+6(3)	
	30D6	F811361F361F	83	ZAP KLEN,KLEN	IS A KEY LENGTH GIVEN?
	30DC	478030FE	84	BZ KLENO	NO
	30E0	D203344F360F	85	MVC HD1+81(4),ED3	
	30E6	DE03344F361F	86	ED HD1+81(4),KLEN	KEY LENGTH TO HEADING LINE
	30EC	95403450	87	LJKLEN CLI HD1+82,C' '	LEFT-JUSTIFY SIGNIFICANT DIGITS
	30F0	4770310C	88	BNE DEVTYPE	
	30F4	D20234503451	89	MVC HD1+82(3),HD1+83	
	30FA	47F030EC	90	B LJKLEN	
	30FE	D20F3443369B	91	KLENO MVC HD1+69(16),=CL16'NO KEY'	
	3104	47F0310C	92	B DEVTYPE	
	3108	9602361A	93	BADKLEN DI ERRORS,2	KEY LENGTH IS NOT NUMERIC
			94	* VALIDATE DEVICE TYPE AND SET UP DEVICE-DEPENDENT CONSTANTS	
	310C	D201342933B8	95	DEVTYPE MVC HD1+43(2),CARD+10	DEVICE TYPE TO HEADING LINE
	3112	48803684	96	LH 8,=Y(DEVTABLE)	R8 SCANS DEVICE TYPE TABLE
	3116	D50133B88000	97	DEVCHECK CLC CARD+10(2),0(8)	HIT ON DEVICE TYPE?
	311C	47803158	98	BE GOODDVC	YES--SET UP CONSTANTS
	3120	AA803686	99	AH 8,=H'11'	INCREMENT TABLE POINTER
	3124	49803688	100	CH 8,=Y(DEVTEND)	END OF TABLE?
	3128	47403116	101	BL DEVCHECK	NO--TRY NEXT ENTRY
	312C	D212358B36AB	102	MVC LINE(19),=CL19'INVALID DEVICE TYPE'	
	3132	9610361A	103	DI ERRORS,X'10'	SET DEVICE TYPE ERROR BIT
	3136	45D03360	104	BAL 13,CLER	
			105	CNTRL PRTR,SP,0,2	
			110	PUT PRTR,LINE	PRINT ERROR MESSAGE
	3148	D283358B358A	113	MVC LINE,BLANK	

ERRORS	LOC	OBJECT CODE	STMT	SOURCE STATEMENT	
	314E	F822364036BE	114	ZAP MAX,=P*99999*	SUPPRESS RECORD SIZE CHECK
	3154	47F03170	115	B RCSZCHEK	
	3158	F82236408002	116	GOODDVC ZAP MAX,2(3,8)	TRACK CAPACITY IN BYTES
	315E	F811363E8005	117	ZAP FACTOR,5(2,8)	GAP TOLERANCE FACTOR
	3164	F811364A8D07	118	ZAP KEYGAP,7(2,8)	KEY GAP LENGTH
	316A	F811364C8009	119	ZAP DATAGAP,9(2,8)	ALL OTHER RECORD OVERHEAD
			120	* PRINT ERROR MESSAGE IF RECORD SIZE IS NOT NUMERIC	
	3170	9101361A	121	RCSZCHEK TM ERRORS,1	IS RECORD SIZE VALID?
	3174	4780319A	122	BZ RCSZMAX	YES--CHECK AGAINST MAXIMUM
	3178	D212358B36C1	123	MVC LINE(19),=CL19*INVALID RECORD SIZE*	
	317E	45D03360	124	BAL 13,CLER	
			125	CNTRL PRTR,SP,0,2	
			130	PUT PRTR,LINE	
	3190	D283358B358A	133	MVC LINE,BLANK	
	3196	47F031C6	134	B KLENCHK	BYPASS MAXIMUM RECORD SIZE CHE
			135	* DETERMINE WHETHER AT LEAST ONE RECORD WILL FIT ON A TRACK	
	319A	F922361C3640	136	RCSZMAX CP RCSZ,MAX	IS RECORD SIZE TOO LARGE?
	31A0	47D031C6	137	BNH KLENCHK	NO
	31A4	D21B358B36D4	138	MVC LINE(28),=CL28*RECORD WILL NOT FIT ON TRACK*	
	31AA	9604361A	139	OI ERRORS,4	SET RECORD-TOO-LARGE BIT
	31AE	45D03360	140	BAL 13,CLER	
			141	CNTRL PRTR,SP,0,2	
			146	PUT PRTR,LINE	
	31C0	D283358B358A	149	MVC LINE,BLANK	
			150	* PRINT ERROR MESSAGE IS KEY LENGTH IS NOT NUMERIC	
	31C6	9102361A	151	KLENCHK TM ERRORS,2	IS KEY LENGTH VALID?
	31CA	478031F0	152	BZ KLENMAX	YES
	31CE	D211358B36F0	153	MVC LINE(18),=CL18*INVALID KEY LENGTH*	
	31D4	45D03360	154	BAL 13,CLER	
			155	CNTRL PRTR,SP,0,2	
			160	PUT PRTR,LINE	
	31E6	D283358B358A	163	MVC LINE,BLANK	
	31EC	47F0321C	164	B ERRORCHK	BYPASS MAXIMUM-KEY-LENGTH CHEC
			165	* CHECK THAT KEY LENGTH DOES NOT EXCEED 255	
	31F0	F911361F3702	166	KLENMAX CP KLEN,=P*255*	IS KEY LENGTH TOO LARGE?
	31F6	47D0321C	167	BNH ERRORCHK	NO
	31FA	D216358B3704	168	MVC LINE(23),=CL23*KEY LENGTH IS TOO LARGE*	
	3200	9608361A	169	OI ERRORS,8	SET KEY-LENGTH-TOO-LARGE BIT
	3204	45D03360	170	BAL 13,CLER	

ERRORS	LOC	OBJECT CODE	STMT	SOURCE STATEMENT
--------	-----	-------------	------	------------------

			171	CNTRL PRTR,SP,0,2
			176	PUT PRTR,LINE
3216	D283358B358A		179	MVC LINE,BLANK

			181	* END OF VALIDATION ROUTINES--IF THERE WERE ANY ERRORS, DO NOT PROCESS
321C	9500361A		182	ERRORCHK CLI ERRORS,0 WERE THERE ANY ERRORS?
3220	47703008		183	BNE NEXTCARD YES--READ NEXT CARD

ERRORS	LOC	OBJECT CODE	STMT	SOURCE STATEMENT	
			185	*****	
			186	*	
			187	*	START OF ACTUAL BLOCK SIZE CALCULATIONS
			188	*	
			189	*****	
	3224	F8103629371B	190	ZAP NREC,=P*1*	START WITH UNBLOCKED RECORDS
			191	* START OF LOOP FOR EACH BLOCK SIZE	
	322A	F8423621361C	192	LOOP ZAP DL,RCSZ	
	3230	FC4136213629	193	MP DL,NREC	DATA LENGTH (BLOCK SIZE)
	3236	F8213626361F	194	ZAP KD,KLEN	COMPUTE KEY-GAP-DATA LENGTH
	323C	47803246	195	BZ NOKEY	NO KEY FIELD SPECIFIED
	3240	FA213626364A	196	AP KD,KEYGAP	ADD LENGTH OF KEY FIELD GAP
	3246	FA2436263621	197	NOKEY AP KD,DL	TOTAL KEY-GAP-DATA LENGTH
	324C	F92236263640	198	CP KD,MAX	HAS BLOCK BECOME TOO LARGE?
	3252	47203344	199	BH LASTLINE	YES--WE'RE FINISHED
	3256	F8F1362B361F	200	ZAP WORK,KLEN	
	325C	FAF4362B3621	201	AP WORK,DL	TOTAL KEY AND DATA LENGTH
	3262	FCF1362B363E	202	MP WORK,FACTOR	NUMBER OF VARIABLE GAP BYTES
	3268	FAF2362B371C	203	AP WORK,=P*5000*	ROUND TO THE NEAREST BYTE
	326E	D1003638363A	204	MVN WORK+13(1),WORK+15	
	3274	F82D363B362B	205	ZAP L,WORK(14)	
	327A	FA22363B3626	206	AP L,KD	
	3280	FA21363B364C	207	AP L,DATAGAP	TOTAL EFFECTIVE RECORD LENGTH
	3286	F8F2362B3640	208	ZAP WORK,MAX	NUMBER OF BYTES AVAILABLE FOR
	328C	F8F2362B3626	209	SP WORK,KD	ALL BLOCKS EXCEPT LAST ONE
	3292	FDF2362B363B	210	DP WORK,L	NUMBER OF BLOCKS EXCEPT LAST ONE
	3298	F81C3643362B	211	ZAP N,WORK(13)	
	329E	FA103643371B	212	AP N,=P*1*	NUMBER OF BLOCKS PER TRACK
	32A4	F82236473640	213	ZAP R,MAX	MAXIMUM NUMBER OF BYTES PER TRACK
	32AA	F8F1362B3643	214	ZAP WORK,N	COMPUTE THE TOTAL NUMBER OF
	32B0	F8F0362B371B	215	SP WORK,=P*1*	BYTES REQUIRED BY ALL BLOCKS
	32B6	FCF2362B363B	216	MP WORK,L	ON THE TRACK
	32BC	FAF2362B3626	217	AP WORK,KD	
	32C2	F82F3647362B	218	SP R,WORK	NUMBER OF BYTES REMAINING ON TRACK
	32C8	F8F1362B3643	219	ZAP WORK,N	
	32CE	FCF1362B3629	220	MP WORK,NREC	NUMBER OF RECORDS PER TRACK
	32D4	D583358B358A	221	CLC LINE,BLANK	IS THIS THE FIRST TIME THROUGH
	32DA	478032F8	222	BE SAMEN	YES--DON'T PRINT YET
	32DE	F91136433645	223	CP N,OLDN	IF SMALLER BLOCKING FACTOR GAINED

ERRORS	LOC	OBJECT CODE	STMT	SOURCE	STATEMENT	
	32E4	478032F8	224	BE	SAMEN	SAME BLOCKS/TRACK, DON'T PR
	32E8	45D03360	225	BAL	13,CLER	
			226	PUT	PRTR,LINE	PRINT PREVIOUS LINE
	32F2	D283358B358A	229	MVC	LINE,BLANK	
	32F8	D2033598360F	230	SAMEN MVC	LINE+13(4),ED3	
	32FE	DE0335983629	231	ED	LINE+13(4),NREC	BLOCKING FACTOR
	3304	D20535A53613	232	MVC	LINE+26(6),ED5	
	330A	DE0535A53623	233	ED	LINE+26(6),DL+2	BLOCK SIZE
	3310	D20335B6360F	234	MVC	LINE+43(4),ED3	
	3316	DE0335B63643	235	ED	LINE+43(4),N	NUMBER OF BLOCKS PER TRACK
	331C	D20335C7360F	236	MVC	LINE+60(4),ED3	
	3322	DE0335C73639	237	ED	LINE+60(4),WORK+14	NUMBER OF RECORDS PER TRACK
	3328	D20535D63613	238	MVC	LINE+75(6),ED5	
	332E	DE0535D63647	239	ED	LINE+75(6),R	NUMBER OF BYTES REMAINING ON
	3334	F81136453643	240	ZAP	OLDN,N	SAVE NUMBER OF BLOCKS PER TRA
	333A	FA103629371B	241	AP	NREC,=P*1	INCREMENT BLOCKING FACTOR
	3340	47F0322A	242	B	LOOP	COMPUTE FOR NEW BLOCKING FACT
			243	* THE LARGEST POSSIBLE BLOCK HAS BEEN FOUND--PRINT LAST LINE		
			244	LASTLINE PUT	PRTR,LINE	
	334A	D283358B358A	247	MVC	LINE,BLANK	
	3350	47F0300B	248	B	NEXTCARD	GO FOR ANOTHER CARD
			249	* END OF CONTROL CARDS--TERMINATE RUN		
			250	EOF	CLOSE RDR,PRTR	
			253		EOJ	

ERRORS	LOC	OBJECT CODE	STMT	SOURCE	STATEMENT
			256	*	
			257	*	PAGE OVERFLOW ROUTINE
			258	*	
	3360	95013619	259	CLER	CLI OF,1
	3364	4770D000	260		BNE O(.13)
	3368	A601345C	261		AI HD1+94,1 INCREMENT ONE-DIGIT PAGE NUM
			262		CNTRL PRTR,SK,7
			267		CNTRL PRTR,SP,0,2
			272		PUT PRTR,HD1
	3382	92003619	275		MVI OF,0
	3386	9500361A	276		CLI ERRORS,0 IS THIS AN ERROR MESSAGE PRI
	338A	4770D000	277		BNE O(.13) YES--DON'T PRINT HD2 OR HD3
			278		PUT PRTR,HD2
			281		CNTRL PRTR,SP,0,2
			286		PUT PRTR,HD3
	33A2	47F0D000	289		B O(.13)
			290	*	PAGE OVERFLOW DETECTION
	33A6	92013619	291	PROV	MVI OF,1
	33AA	47F0E000	292		B O(.14)

ERRORS	LOC	OBJECT CODE	STMT	SOURCE	STATEMENT
			294	*****	*****
			295	*	
			296	*	S T O R A G E
			297	*	
			298	*****	*****
33AE			299	CARD DS	CL80 CONTROL CARD IMAGE
33FE			300	HD1 DS	OCL132 FIRST HEADING LINE
33FE	C4C9E2C340C2D3D6		301	DC	CL32°DISC BLOCK SIZE CALCULATION°
341E	C4C5E5C9C3C5A97E		302	DC	CL16°DEVICE = 84°
342E	D9C5C3D6D9C4A0E2		303	DC	CL41°RECORD SIZE =°
3457	D7C1C7C540404040		304	DC	CL43°PAGE°
3482			305	HD2 DS	OCL132 SECOND HEADING LINE
3482	4040404040404040		306	DC	CL12°°
348E	C2D3D6C3D2C9D5C7		307	DC	CL16°BLOCKING°
349E	C2D3D6C3D240#040		308	DC	CL14°BLOCK°
34AC	C2D3D6C3D2E24040		309	DC	CL17°BLOCKS°
34BD	D9C5C3D6D9C4E240		310	DC	CL18°RECORDS°
34CF	C2E8E3C5E240#040		311	DC	CL55°BYTES°
3506			312	HD3 DS	OCL132 THIRD HEADING LINE
3506	4040404040404040		313	DC	CL13°°
3513	C6C1C3E3D6D94040		314	DC	CL15°FACTOR°
3522	E2C9E9C540404040		315	DC	CL13°SIZE°
352F	D7C5D940E3D9C1C3		316	DC	2CL17°PER TRACK°
3551	D9C5D4C1C9D5C9D5		317	DC	CL57°REMAINING°
358A	40		318	BLANK DC	CL1°° MUST PRECEDE LINE
358B	404040404040#040		319	LINE DC	CL132°° PRINT LINE IMAGE
360F	40202120		320	ED3 DC	XL4°40202120°
3613	402020202120		321	ED5 DC	XL6°402020202120°
3619			322	OF DS	XL1 PAGE OVERFLOW INDICATOR
361A			323	ERRORS DS	XL1 ERROR INDICATORS
361B			324	LEADBLNK DS	XL1 LEADING BLANK CONTROL
361C			325	RCSZ DS	PL3 RECORD SIZE
361F			326	KLEN DS	PL2 KEY LENGTH
3621			327	DL DS	PL5 DISC DATA LENGTH (BLOCK SIZE)
3626			328	KD DS	PL3 KEY-GAP-DATA LENGTH
3629			329	NREC DS	PL2 BLOCKING FACTOR
362B			330	WORK DS	PL16 WORK AREA
363B			331	L DS	PL3 TOTAL EFFECTIVE RECORD LENGTH
363E			332	FACTOR DS	PL2 VARIABLE GAP TOLERANCE FACTOR

ERRORS	LOC	OBJECT CODE	STMT	SOURCE	STATEMENT	
	3640		333	MAX	DS PL3	TRACK CAPACITY IN BYTES
	3643		334	N	DS PL2	NUMBER OF BLOCKS PER TRACK
	3645		335	OLDN	DS PL2	PREVIOUS VALUE OF IN
	3647		336	R	DS PL3	BYTES REMAINING ON TRACK
	364A		337	KEYGAP	DS PL2	KEY GAP LENGTH
	364C		338	DATAGAP	DS PL2	TOTAL OTHER RECORD OVERHEAD
			339	* DEVICE-DEPENDENT CONSTANT TABLE--11 BYTES PER ENTRY		
			340	* 0- 1--DEVICE TYPE CODE AS READ FROM CARD		
			341	* 2- 4--TRACK CAPACITY IN BYTES		
			342	* 5- 6--VARIABLE GAP TOLERANCE FACTOR X 10,000		
			343	* 7- 8--KEY GAP LENGTH		
			344	* 9-10--TOTAL OTHER RECORD OVERHEAD		
	364E		345	DEVTABLE	EQU *11	
	364E	F1F1	346	DC	CL2°11°	8411
	3650	03625C	347	DC	PL3°3625°	
	3653	500C	348	DC	PL2°500°	
	3655	020C	349	DC	PL2°20°	
	3657	061C	350	DC	PL2°61°	
	3659	F1F4	351	DC	CL2°14°	8414
	365B	07294C	352	DC	PL3°7294°	
	365E	435C	353	DC	PL2°435°	
	3660	045C	354	DC	PL2°45°	
	3662	101C	355	DC	PL2°101°	
	3664	F2F4	356	DC	CL2°24°	8424
	3666	07294C	357	DC	PL3°7294°	
	3669	476C	358	DC	PL2°476°	
	366B	045C	359	DC	PL2°45°	
	366D	101C	360	DC	PL2°101°	
	366F	F2F5	361	DC	CL2°25°	8425--SAME AS 8424
	3671	07294C	362	DC	PL3°7294°	
	3674	476C	363	DC	PL2°476°	
	3676	045C	364	DC	PL2°45°	
	3678	101C	365	DC	PL2°101°	
	367A		366	DEVTEND	EQU *	
			367	EXTRN	RDR,PRTR	
			368	ENTRY	EOF,PROV	
	367A	33AE	369		=Y(CARD)	
	367C	0001	370		=H°1°	
	367E	33B3	371		=Y(CARD+5)	

ERRORS	LOC	OBJECT CODE	STMT	SOURCE STATEMENT
	3680	33B4	372	=Y(CARD+6)
	3682	33B7	373	=Y(CARD+9)
	3684	364E	374	=Y(DEVTABLE)
	3686	000B	375	=H*11*
	3688	367A	376	=Y(DEVTEND)
	368A	4040404040	377	=CL5* *
	368F	D2C5E840D3C5D5C7	378	=CL12*KEY LENGTH =*
	369B	D5D640D2C5E84040	379	=CL16*NO KEY*
	36AB	C9D5E5C1D3C9C440	380	=CL19*INVALID DEVICE TYPE*
	36BE	99999C	381	=P*99999*
	36C1	C9D5E5C1D3C9C440	382	=CL19*INVALID RECORD SIZE*
	36D4	D9C5E3D6D9C440E6	383	=CL28*RECORD WILL NOT FIT ON TRACK*
	36F0	C9D5E5C1D3C9C440	384	=CL18*INVALID KEY LENGTH*
	3702	255C	385	=P*255*
	3704	D2C5E840D3C5D5C7	386	=CL23*KEY LENGTH IS TOO LARGE*
	371B	1C	387	=P*1*
	371C	05000C	388	=P*5000*
	371F	00000003000	389	END BEGIN

NO STATEMENTS FLAGGED IN THIS ASSEMBLY

APPROXIMATE ELAPSED TIME 2 MINUTES 28 SECONDS

SYMBOL	LEN	VALUE	DEFN	REFERENCES
LOOP	6	00322A	192	242
MAX	3	003640	333	114 116 136 198 208 213
N	2	003643	334	211 212 214 219 223 235 240
NEXTCARD	4	003008	34	183 248
NEXTDIGK	4	0030C4	79	74
NEXTDIGR	4	003052	53	48
NOKEY	6	003246	197	195
NREC	2	003629	329	190 193 220 231 241
OF	1	003619	322	36 259 275 291
OLDN	2	003645	335	223 240
PROV	4	0033A6	291	368
PRTR	1	EXTRN	367	26 106 111 126 131 142 147 156 161 172 177 227 245 252 263 268
				273 279 282 287
R	3	003647	336	213 218 239
RCSZ	3	00361C	325	56 58 63 63 136 192
RCSZCHEK	4	003170	121	115
RCSZMAX	6	00319A	136	122
RCSZO	6	003082	63	60
RDR	1	EXTRN	367	25 34 251
SAMEN	6	0032F8	230	222 224
TESTDIGK	4	003088	76	72
TESTDIGR	4	003046	50	46
WORK	16	00362B	330	200 201 202 203 204 204 205 208 209 210 211 214 215 216 217 218
				219 220 237

LOC	LEN	DEFN	LITERAL	REFERENCES
368A	5	377	=CL5° °	40
367A	2	369	=Y(CARD)	43
367C	2	370	=H°1°	53 79
367E	2	371	=Y(CARD+5)	54
368F	12	378	=CL12°KEY LENGTH =°	67
3680	2	372	=Y(CARD+6)	69
3682	2	373	=Y(CARD+9)	80
369B	16	379	=CL16°NO KEY°	91
3684	2	374	=Y(DEVTABLE)	96
3686	2	375	=H°11°	99
3688	2	376	=Y(DEVTEND)	100
36AB	19	380	=CL19°INVALID DEVICE TYPE°	102
36BE	3	381	=P°99999°	114
36C1	19	382	=CL19°INVALID RECORD SIZE°	123
36D4	28	383	=CL28°RECORD WILL NOT FIT ON TRACK°	138
36F0	18	384	=CL18°INVALID KEY LENGTH°	153
3702	2	385	=P°255°	166
3704	23	386	=CL23°KEY LENGTH IS TOO LARGE°	168
371B	1	387	=P°1°	190 212 215 241
371C	3	388	=P°5000°	203

TOTAL EXECUTION TIME 3 MINUTES 1 SECOND

CTL N,W,0,SCRATCH3,R,0,SCRATCH1,S,0,SCRATCH2

3000

PRGM DISCBK SZ,X*3000*

3000

INCL WDE DISCBK SZ

3720

LIBE RLOCATBL,D,RELOC LIB

3720

INCL A RDR

3866

INCL A PRTR

```

3000          PRGM DISCBKSZ.X*3000*
3000          INCLUDE DISCBKSZ
3000          A 0001 3000 DISCBKSZ 071F
3354          H          3354 EOF
33A6          H          33A6 PROV
3000          J          DISCBKSZ
3866          K 0003  PRTR
3720          K 0002  RDR
3000          Y

```

```

3720          LIBE RLOCATBL.O,RELOC LIB
3720          INCL      A RDR
3720          A 0001 0000 DTFRDR 0146
3720          H          0000 RDR
3720          J          DTFRDR
3354          K 0002  EOF
3000          Y

```

```

3866          INCL      A PRTR
3866          A 0001 0000 DTFPRTR 03C6
3898          H          0035 B?SA
3898          H          0035 B?SH
3866          H          0000 PRTR
3866          J          DTFPRTR
33A6          K 0003  PROV
3000          Y

```

/ CTL N,U,0,CJGPROGS

/ SEL /DISCBKSZ,0,SCRATCH3

• ELT L

• END

DISCBKSZ 760127

760127

199 00 05 1

199 01 07 1

THERE ARE 42 UNUSED DIRECTORY BLOCKS

THERE ARE 467 UNUSED DATA BLOCKS

END OF EXTENT = 199 19

UNIVAC 9300 LIBRARY SERVICES UPDATE OF CJGPROGS LU 00 SERIAL SYSGEN NO ERRORS /CJG/741216

/*

UNIVAC 9300 LIBRARY SERVICES

58TDPSTU

TOTAL NO ERRORS /CJG/741216

INVALID DEVICE TYPE

INVALID RECORD SIZE

INVALID KEY LENGTH

DISC BLOCK SIZE CALCULATION

DEVICE = 8414

RECORD SIZE = 10000

KEY LENGTH = 256

PAGE 1

RECORD WILL NOT FIT ON TRACK

KEY LENGTH IS TOO LARGE

BLOCKING FACTOR	BLOCK SIZE	BLOCKS PER TRACK	RECORDS PER TRACK	BYTES REMAINING
1	130	25	25	76
2	260	17	34	114
3	390	13	39	80
4	520	10	40	418
5	650	8	40	736
6	780	7	42	632
7	910	6	42	793
9	1170	5	45	556
12	1560	4	48	323
17	2210	3	51	100
26	3380	2	52	173
55	7150	1	55	88

BLOCKING FACTOR	BLOCK SIZE	BLOCKS PER TRACK	RECORDS PER TRACK	BYTES REMAINING
1	30	38	38	63
2	60	33	66	6
3	90	28	84	232
4	120	25	100	226
5	150	23	115	88
6	180	21	126	74
7	210	19	133	166
8	240	17	136	402
9	270	16	144	319
10	300	15	150	284
11	330	14	154	326
13	390	13	169	16
14	420	12	168	214
16	480	11	176	124
18	540	10	180	169
21	630	9	189	52
24	720	8	192	123
28	840	7	196	166
34	1020	6	204	84
42	1260	5	210	70
54	1620	4	216	58
74	2220	3	222	58
115	3450	2	230	22
241	7230	1	241	4

BLOCKING FACTOR	BLOCK SIZE	BLOCKS PER TRACK	RECORDS PER TRACK	BYTES REMAINING
1	120	32	32	168
2	240	21	42	34
3	360	15	45	256
4	480	12	48	192
5	600	10	50	151
6	720	8	48	610
7	840	7	49	586
9	1080	6	54	74
11	1320	5	55	62
14	1680	4	56	52
19	2280	3	57	54
29	3480	2	58	82
60	7200	1	60	94

BLOCKING FACTOR	BLOCK SIZE	BLOCKS PER TRACK	RECORDS PER TRACK	BYTES REMAINING
1	80	40	40	38
2	160	27	54	166
3	240	21	63	34
4	320	17	68	14
5	400	14	70	160
6	480	12	72	192
7	560	10	70	569
8	640	9	72	502
9	720	8	72	610
11	880	7	77	300
13	1040	6	78	324
16	1280	5	80	266
21	1680	4	84	52
28	2240	3	84	178
44	3520	2	88	0
91	7280	1	91	14