phase-0-2.1\_alt.asc Mon Feb 15 17:04:50 2016 1

CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026  CLEAR STORAGE 2						117I0? 011040	1 2 0 3				
				FORTRAN COMPILER PHASES 00-02			PAGE	1			
SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD A-ADDR	B-ADDR		
101			JOB	FORTRAN COMPILER PHASES 00-02							
102		*	CTL	6611							
103 104			спол	SYSTEM MONITOR, AND LOADER PHASE.							
104		*	SHOI,	SISIEM MONITOR, AND LOADER PHASE.							
106		* READ	AND S	STORE THE SOURCE PROGRAM, IN REVERSE ORDER, STARTING							
107		* AT T	HE TOE	OF CORE, WITH BLANKS REMOVED EXCEPT WITHIN							
108				FIELDS IN FORMAT STATEMENTS. EACH STATEMENT BEGINS							
109 110				FORMAT STATEMENTS THEN HAVE F, WHILE OTHERS HAVE R							
111				ABEL, IF ANY, FOLLOWED BY A COLON. THE END OF EACH IS MARKED BY A GROUP MARK WITH A WORD MARK. AFTER							
112			LAST (	CARD, A STOP STATEMENT IS INSERTED.							
113		*		,							
114			ORG	81			0081				
115	86		DC	@ @	6	0086		4			
116 117	89		DCW	@UUU@	3	0089		4			
118	91	XXXXX1	EQU DC	WILL FOR ORE IN REVENUE	2	0089		4			
119	94	X2	DCW	@000@	3	0094		4			
120		XXXXX2	EQU	X2 FOR USE IN SFX REGIONS		0094					
121	96		DC	@00@	2	0096		4			
122	99	х3	DCW	@000@	3	0099		4			
123 124	104	XXXXX3	EQU DC	X3 FOR USE IN SFX REGIONS	-	0099		4			
124		PHASID	DCM	WU W  MINADERM DHASE ID FOR SNADSHOT	5	0104		4 4			
126	111	TIMOID	DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0111		5			
127	112		DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0112		5			
128	113		DCW	#1 WM CLEARED IF DO STATEMENT APPEARS	1	0113		5			
129	114		DCW	#1 WM CLEARED WHEN AN I/O LIST OF DO IS PROCESSED	1	0114		5			
130 131	115 116	SUBSCR	DCW	#1 WM CLEARED IF 1/O LIST AND NOT LIMITED FORMAT	1	0115		5 5			
132	117	SERIES	DCW	#1 WM CLEARED IF SUBSCRIPT CODE NEEDED	1	0110		5 5			
133		SINCOS	DCW	#1 SAW SINF OR COSF IF NO WM	1	0118		6			
134	119	LOGF	DCW	#1 SAW LOGF IF NO WM	1	0119		6			
135	120	EXPF	DCW	#1 SAW EXPF IF NO WM	1	0120		6			
136	121	CALLADO	DCW	#1 SAW ATANF IF NO WM	1	0121		6			
137 138	122	SAWABS SAWNEG	DCM	#1 SAW ABSE IF NO WM	1	0122		6 6			
139		XFIXF	DCW	#1 SAW NEGATION OPERATOR (UNART MINUS) IF NO WM #1 SAW XFTXF TF NO WM	1	0123		6			
140		FLOATF	DCW	#1 SAW FLOATF IF NO WM	1	0125		7			
141	126		DCW	#1 SAW SQRTF IF NO WM	1	0126		7			
142	127		DCW	#1 SAW USER FUNCTION R IF NO WM	1	0127		7			
143	128		DCW	#1 SAW USER FUNCTION U IF NO WM	1	0128		7			
144 145	129 130		DCW DCW	#I SAW USER FUNCTION P 1F NO WM	1	0129		7 7			
145	131		DCW	#1 SAW USER FUNCTION Y IF NO WM	1	0131		7			
147	132		DCW	IS MARKED BY A GROUP MARK WITH A WORD MARK. AFTER PARD, A STOP STATEMENT IS INSERTED.  81  @ @ @ @0000@ X1 FOR USE IN SFX REGIONS @000@ @0000@ X2 FOR USE IN SFX REGIONS @000@ @0000@ X3 FOR USE IN SFX REGIONS @0 @ @LOADER@ PHASE ID, FOR SNAPSHOT #1 WM CLEARED IF DO STATEMENT APPEARS #1 WM CLEARED IF JO LIST OF DO IS PROCESSED #1 WM CLEARED IF I/O LIST AND NOT LIMITED FORMAT #1 WM CLEARED IF SUBSCRIPT CODE NEEDED #1 NEED SERIES ROUTINE IF NO WM #1 SAW SINF OR COSF IF NO WM #1 SAW LOGF IF NO WM #1 SAW ATANF IF NO WM #1 SAW ATANF IF NO WM #1 SAW ABSF IF NO WM #1 SAW ABSF IF NO WM #1 SAW NEGATION OPERATOR (UNARY MINUS) IF NO WM #1 SAW SORTF IF NO WM #1 SAW SORTF IF NO WM #1 SAW USER FUNCTION R IF NO WM	1	0132		8			

				FORTRAN COMPILER PHASES 00-02				I	PAGE	2		
SEQ PG LI	IN I	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TY	PE (	CARD A	-ADDR	B-ADDR
156 14 157 14 158 15 159 15 160 15 161 16 162 16 163 18 164 18 165 18 166 18 167 18 168 19 170 19 170 19 171 19 172 173	344 345 366 377 388 389 442 445 57 600 600 600 600 600 600 600 60	NEGAR 2 TBLBOT SEQTAB DOCNT BOTFMT NEGAR 3 ARYSIZ NEGARY NSTMTS GLOBER GOTXL RELTAB SUBENT ARYTOP	DCW	FORTRAN COMPILER PHASES 00-02  OPERANDS  #1 SAW USER FUNCTION J IF NO WM  #1 SAW USER FUNCTION K IF NO WM  #1 SAW USER FUNCTION L IF NO WM  #1 SAW USER FUNCTION M IF NO WM  #1 SAW USER FUNCTION D IF NO WM  #1 SAW USER FUNCTION H IF NO WM  #1 SAW LINKF IF NO WM  #3 LOOKS LIKE NEGARY SEE PHASE 20  #3 ONE BELOW NUMBERS, FORMATS, I/O LISTS  #3 BOTTOM OF SEQUENCE NUMBER TABLE - 2  #3 COUNT OF DO STATEMENTS  #3 BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1  #3 LOOKS LIKE NEGARY SEE PHASE 20  #3 TOTAL ARRAY SIZE & 2  #3 16000 - ARYSIZ  #17  #3 NUMBER OF STATEMENTS, INCLUDING GENERATED STOP  #1 GLOBAL ERROR FLAG WM MEANS ERROR  #1 XLINKF WAS REFERENCED IF NO WM  #3 RELOCATABLE FUNCTION TABLE ENTRY ADDRESSES  #3 ENTRY TO SUBSCRIPT ROUTINE  #3 TOP OF ARRAYS IN OBJECT CODE  #1  @V3MO@  333		1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 1 7 3 1 1 1 4 4	0133 0134 0135 0136 0137 0139 0142 0145 0148 0151 0157 0160 0163 0180 0183 0184 0185 0188 0191 0194 0195	0333		8 8 8 8 8 9 9 9 9 9 10 10 10 10 10 10 10 11		
178 33 179 34 180 34 181 35 182 36 183 36 184 37 185 38 186 38	333 S 337 411 48 55 55 69 76 30 31 38	SNAPSH	SFX SBR SBR MCW MCW MCW SBR SBR CS MCW BSS MCW BSS	S EXIT&3 SXX&6 KZ3,ADR5-2 START FIVE-DIGIT ADDRESS AT ZERO XXXXX3,SX3&6 XXXXX1,SX1&6 XXXXX1,1 XXXXX3,202 332 PHASID,210 SKIP,F	000000000000	4 4 7 7 7 7 4 1 7 5	0333 0337 0341 0348 0355 0362 0369 0376 0380 0381	H 567 H 408 M 661 656 M 099 415 M 089 422 H 089 001 H 099 202 / 332 / M 110 210 B 621 F		12 12 12 12 12 12 13 13 13 13	567 408 661 099 089 089 099 332 110 621	656 415 422 001 202
190 191 39 192 39 193 40 194 40	93 95 02 \$ 09 \$ 16 \$	* SXX SX3 SX1	CC MCW SBR SBR SBR W CC	XADER  1  XXXXX2,250  216,0  RETURN ADDRESS WAS STORED IN B  256,0  X3 WAS STORED IN B  244,0  X1 WAS STORED IN B	5 5 5 5 5 5	2 7 7 7 7 1 2	0393 0395 0402 0409 0416 0423 0424	F 1 M 094 250 H 216 000 H 256 000 H 244 000 2 F K		13 13 14 14 14 14 14	094 216 256 244	250 000 000 000

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SEQ PO	G LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD 2	A-ADDR	B-ADDR
198	426		ZA	KP2,W2A	S	7	0426	? 662 664	14	662	664
199	433	CLEARH	CS	332	S	4	0433	/ 332	14	332	
200	437	СППППП	CS	332	S	1	0437	/ 332	15	332	
201	438		CC	J	S	2		У F J	15		
201	440				S	7	0440	M 658 306	15	658	306
			MCW	ADR5,306 FIVE-DIGIT ADDRESS						050	300
203	447		MCW	7.00P+6	S	1	0447	M	15	4.6.5	
204	448		SBR	LOOP&6	S	4	0448	н 465	15	465	
205	452		MCW	K9,W2B-1	S	7	0452	м 665 668	15	665	668
206	459	LOOP	MCW	W2B-1,000	S	7	0459	м 668 000	15	668	000
207	466		MCW	DOTS	S	4	0466	M 651	16	651	
208	470		SBR	LOOP&6	S	4	0470	н 465	16	465	
209	474		A	W2B-1,000 DOTS LOOP&6 KM10,W2B ADD IO = -10 LOOP,W2B-1,2 NO ZONE IN COUNTER HIGH DIGIT? KP1,ADR5-2 BUMP HUNDREDS DIGIT OF ADDRESS	S	7		A 667 669	16	667	669
210	481		BWZ	LOOP, W2B-1,2 NO ZONE IN COUNTER HIGH DIGIT?	S	8	0481	V 459 668 2	16	459	668
211	489		A	KP1,ADR5-2 BUMP HUNDREDS DIGIT OF ADDRESS	S	7	0489	A 670 656	16	670	656
212	496		W		S	1	0496	2	16		
213	497	GET	SW	0&X3 MOVE DATA AND WM TO PRINT AREA	S	4	0497	, 0?0	16	000+3	
214	501		MCW	0&X1,0&X3	S	7		W 0 0 0 0 0 0	17	000+1	000+3
215	508		BW	DOWM,0&X1 SKIP CLEARING PRINT AREA WM	S	8		V 520 0 0 1	17	520	000+1
216	516		CW	0&X3	S	4	0516	) 0?0	17	000+3	000.1
217	520	DOWM	C	XXXXX1, TOPCOR DONE?	9	7	0520	C 089 688	17	089	688
218	527	DOWN	BU	CONT NO	0	5	0527	B 568 /	17	568	000
219	532		W	CONT	2	1	0532	2	17	300	
220	533		WM		2	2	0532	2 )	17		
		DV1		CV1(6 VVVVV1 DECEMBE INDEX DECC	<u>د</u>	7				422	000
221	535	RX1	MCW	SX1&6,XXXXX1 RESTORE INDEX REGS	5	7		M 422 089	18	422	089 099
222	542		MCW	KP1,ADR5-2 BUMP HUNDREDS DIGIT OF ADDRESS  0&X3 MOVE DATA AND WM TO PRINT AREA 0&X1,0&X3 DOWM,0&X1 SKIP CLEARING PRINT AREA WM 0&X3 XXXXX1,TOPCOR DONE? CONT NO  SX1&6,XXXXX1 RESTORE INDEX REGS SX3&6,XXXXX3 332	5		0542	M 415 099	18		099
223	549		CS	332	S	4	0549	/ 332	18	332	
224	553		CS		S	1	0553	/	18	F.6.0	
225	554		BSS	HALT,G	S	5		B 563 G	18	563	
226	559		В	EXIT	S	4		В 564	18	564	
227	563	HALT	H		S	1	0563	•	18		
228	564	EXIT	В	0-0	S	4		В 000	19	000	
229	568	CONT	SBR	XXXXX1,1&X1	S	7		н 089 0 1	19	089	001+1
230	575		BCE	BUMP3,XXXXX3-2,2	S	8	0575	в 632 097 2	19	632	097
231	583		SBR	XXXXX3,201	S	7	0583	н 099 201	19	099	201
232	590		W		S	1	0590	2	19		
233	591		WM		S	2	0591	2 )	19		
234	593		A	KP1,W2A	S	7	0593	A 670 664	19	670	664
235	600		C	W2A,KP15	S	7	0600	C 664 672	20	664	672
236	607		BU	CLEARH	S	5	0607	В 433 /	20	433	
237	612		S	W2A	S	4	0612	S 664	20	664	
238	616		CCB	CLEARH, 1	S	5	0616	F 433 1	20	433	
239	621	SKIP	MCW	XQTD, 220	S	7	0621	M 680 220	20	680	220
240	628		W	RX1	S	4	0628	2 535	20	535	
241	632	BUMP3	A	KP1,XXXXX3	S	7		A 670 099	20	670	099
242	639		В	GET	S	4	0639	В 497	21	497	<del>-</del>
243	651	DOTS	DCW	@9@	S	9	0651		21	'	
244	653		DCW	@9-@	S	2	0653		21		
245		ADR5	DCW	00000 FIVE DIGIT ADDRESS	S	5	0658		21		
246	661	KZ3	DCW	000	S	3	0661		21		
247		KP2	DCW	&2	S	1	0662		21		
	. J <u>.</u>		2011	<del></del>	5	_	5502				

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SEQ PG	LIN	LABEL	OP	FORTRAN COMPILER PHASES 00-02 OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
248	664	W2A	DCW	#2 9 @10@ #2 &1 &15 @EXECUTED@ END OF SNAPSHOT ROUTINE	S	2	0664			21		
249	665		DCW	9	S	1	0665			22		
250		KM10	DCW	@IO@	g	2	0667			22		
251		W2B	DCW	#2	S	2	0669			22		
252		KP1	DCW	&1	S	1	0670			22		
253		KP15	DCW	&15	S	2	0672			22		
254		XQTD	DCW	@EXECUTED@	S	8	0680			22		
255		~	SFX	END OF SNAPSHOT ROUTINE	-							
256		*										
257		* STOR	AGE FO	R PARAMETER CARD								
258		*										
259			DA	1X19			0681	0699		22		
260	685	PWORD		5 THE WORD PARAM			0685		SBFLD			
261	688	TOPCOR		8 TOP CORE ADDRESS FROM PARAM CARD			0688		SBFLD			
262	690	IMOD		10 INTEGER MODULUS NUMBER OF DIGITS			0690		SBFLD			
263	692	MANTIS		12 FLOATING POINT MANTISSA DIGITS			0692		SBFLD			
264	693	CONDNS		13 P FOR CONDENSED DECK			0693		SBFLD			
265	694	SNAPSW		14 S FOR SNAPSHOT			0694		SBFLD			
266 267	695	C1410		15 T IF RUN ON 1410 IN 1401 COMPATIBILITY MODE			0695		SBFLD			
268	090	*		DIANK FOR ORDINARY A FOR A CONVERGION			0696		SBFLD			
269	699	$D \lambda D \lambda M$		10 DAPAMETER CARD IS STORED HERE			0699		SBFLD			
270	0,7,7	*		1X19 5 THE WORD PARAM 8 TOP CORE ADDRESS FROM PARAM CARD 10 INTEGER MODULUS NUMBER OF DIGITS 12 FLOATING POINT MANTISSA DIGITS 13 P FOR CONDENSED DECK 14 S FOR SNAPSHOT 15 T IF RUN ON 1410 IN 1401 COMPATIBILITY MODE 16 X FOR NO FORMAT, L FOR LIMITED FORMAT BLANK FOR ORDINARY, A FOR A CONVERSION 19 PARAMETER CARD IS STORED HERE			0000		סחי יוסט			
271		* T.OAD	NEXT	OVERLAY								
272		*										
273			SFX	L								
274	700	LOADNX	MCW	CLRBOT-2,K999-2 SET CLEAR END HIGH DIGIT	L	7	0700	M 831 828		23	831	828
275		CLEARL	CS	0-0	L	4	0707	/ 000		23	000	
276	711		SBR	CLEARL&3	L	4	0711	н 710		23	710	
277	715		C	CLEARL&3,K999	L	7	0715	C 710 830		23	710	830
278	722		BU	CLEARL	L	5	0722	В 707 /		23	707	
279	727		SW	CLRWM&4	L	4	0727	, 758		23	758	7.60
280	731		MCW	CLEARL&3, CLRWM&6	Tr.	./	0731	M 710 760		23	710	760
281 282	738	CLRL	CW C	CLRWM&4	Т-	4	0743	) /58 G 760 022		24	758	833
283	742	CLRL	BE	CDOVI V I OND THE OVERLAY	т	/	0742	C 760 633		24	760	033
284		CLRWM	T.C.D	BIANK U CIESE MITH BISNK VND MOED WYEK	Т.	7	0749	T. 834 000		24	709 834	000
285	761	СШКМИ	SBR	CIRWASA	Т.	4	0751	н 760		24	760	000
286	765		В	CLRI	т.	4	0765	B 742		24	742	
287		CDOVLY	R	40 CARD OVERLAY UNLESS NOP	L	4	0769	1 040		24	040	
288	773		MCW	EINIT, ECOUNT INITIALIZE ERROR COUNT	L	7	0773	M 835 837		25	835	837
289	780	TPREAD	RTW	1,BEGIN1 LOAD OVERLAY FROM TAPE	L	8	0780	L %U1 838 R		25	%U1	838
290	788		BER	TPERR ERROR?	L	5	0788	B 797 L		25	797	
291	793		В	BEGIN1 NO, RUN THE OVERLAY	L	4	0793	В 838		25	838	
292	797	TPERR	BSP	1	L	5	0797	U %U1 B		25	%U1	
293	802		S	ONE, ECOUNT	L	7	0802	S 836 837		25	836	837
294	809		BWZ	TPREAD, ECOUNT, B STILL POSITIVE?	L	8	0809	V 780 837 B		26	780	837
295	817		H	L CLRBOT-2,K999-2 SET CLEAR END HIGH DIGIT 0-0 CLEARL&3 CLEARL&3,K999 CLEARL CLRWM&4 CLEARL&3,CLRWM&6 CLRWM&6,CLRBOT CDOVLY LOAD THE OVERLAY BLANK,0 CLEAR WITH BLANK AND WORD MARK CLRWM&6 CLRUM&6 CLRL 40 CARD OVERLAY UNLESS NOP EINIT,ECOUNT INITIALIZE ERROR COUNT 1,BEGIN1 LOAD OVERLAY FROM TAPE TPERR ERROR? BEGIN1 NO, RUN THE OVERLAY 1 ONE,ECOUNT TPREAD,ECOUNT,B STILL POSITIVE? 3333,3333 TOO MANY TAPE ERRORS RDAGIN READ AGAIN 999	L	7	0817	. C33 C33		26	3333	3333
296	824	7.000	B	KDAGIN KEAD AGAIN	<u>т</u>	4	0824	B //3		26	173	
297	830	K999	DSA	צנע	ш	3	0830	333		∠6	999	

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	FORTRAN COMPILER PHASES 00-02			PAGE	-		
SEQ PG LIN LABEL OP	OPERANDS  1 332  STMSG,228 START FORTRAN COMPILATION MSG  J TOP5,231 SPSIZE SPECIFIED SIZE  235 COR5,228 ACTSIZ ACTUAL SIZE BIGNUF,C1410,T COMPILING FOR 1410 COMPATIBILITY?  COR5,TOP5 PSGTM PRINT SPEC SIZE GT MACH SIZE TOP5,K3900 COMPARE TOP TO 3900 BIGNUF J 332  SIZERR,218 MACHINE SIZE ERROR  USEACT SGTM,267 SPEC. SIZE GT MACH. SIZE MSG SGTM2 REST OF THE MESSAGE  CORSIZ,TOPCOR USE ACTUAL SIZE TOPCOR,CLEARD&3  OM TOP OF THIS MACHINE'S MEMORY DOWN TO DOWNTO	SFX CT	LOCN	INSTRUCTION TYPE	CARD	A-ADDR	B-ADDR
348 980 CS		1	0965	/	36		
349 981 CC	1	2	0966	F 1	36		
350 983 CS	332	4	0968	/ 332	36	332	
351 987 CS		1	0972	/	37		
352 988 MCW	STMSG,228 START FORTRAN COMPILATION MSG	7	0973	M N79 228	37	2579	228
353 995 W	-	1	0980	2	37		
354 996 CC 355 998 MCW	U EODE 221	2	0981	F' J	37	2620	231
355 998 MCW 356 1 005 MCW	TOP5,231	/	0983	M 038 231	37	2638 2605	231
357 1 009 W	25217F 25FCILIED 217F	1	0990	M 003	37	2005	
358 1 010 CS	235	4	0995	/ 235	38	235	
359 1 014 MCW	COR5,228	7	0999	M O33 228	38	2633	228
360 1 021 MCW	ACTSIZ ACTUAL SIZE	4	1006	М О28	38	2628	
361 1 025 BCE	BIGNUF, C1410, T COMPILING FOR 1410 COMPATIBILITY?	8	1010	в  81 695 т	38	1081	695
362 1 033 W		1	1018	2	38		
363 1 034 C	COR5,TOP5	7	1019	C 033 038	38	2633	2638
364 1 041 BH	PSGTM PRINT SPEC SIZE GT MACH SIZE	5	1026	B   62 U	38	1062	
365 1 046 C	TOP5,K3900 COMPARE TOP TO 3900	7	1031	C 038 043	39	2638	2643
366 1 053 BL 367 1 058 CC	BIGNUF	5	1038	B 18T J.	39	1081	
367 1 058 CC 368 1 060 CS	U 222	∠ 1	1043	r U / 222	39	222	
369 1 064 CS	332	1	1043	/ 332	39	334	
370 1 065 MCW	SIZERR.218 MACHINE SIZE ERROR	7	1050	м 061 218	39	2661	218
371 1 072 W		1	1057	2	39		
372 1 073 B	USEACT	4	1058	в  74	40	1074	
373 1 077 PSGTM MCW	SGTM,267 SPEC. SIZE GT MACH. SIZE MSG	7	1062	м р07 267	40	2707	267
374 1 084 MCW	SGTM2 REST OF THE MESSAGE	4	1069	M P28	40	2728	
375 1 088 W		1	1073	2	40		
376 1 089 USEACT MCW	CORSIZ, TOPCOR USE ACTUAL SIZE	7	1074	M N42 688	40	2542	688
377 1 096 BIGNUF MCW 378 *	TOPCOR, CLEARD&3	./	1081	М 688  91	40	688	1091
	OM TOP OF THIS MACHINE'S MEMORY DOWN TO DOWNTO						
380 *	OM TOP OF THIS MACHINE S MEMORI DOWN TO DOWNTO						
381 1 103 CLEARD CS	0-0	4	1088	/ 000	40	000	
382 1 107 SBF	CLEARD&3	4	1092	н  91	41	1091	
383 1 111 C	CLEARD&3,DOWNTO	7	1096	C 91 P31	41	1091	2731
384 1 118 BU	CLEARD	5	1103	в  88 /	41	1088	
385 *							
386 1 123 R		1	1108	1	41		
387 1 124 MZ	*-6,AZONE SET A ZONE AFTER CARD STORAGE AREA	.7	1109	Y /09 M86	41	1109	2486
388 1 131 MZ 389 1 138 MZ	*-6,INTRST&/ SET A ZONE IN BCE D-MODIFIER	7	1110	Y /16 W92	41	1110	1692 1965
399 1 138 MZ 390 1 145 MZ	*-6 INTCUP_1 ADD A ZONE TO INTERESTING CHARG	7	1120	1 /23 205 V /30 T.72	41	1120	2372
391 1 152 MCW	0-0 CLEARD&3 CLEARD&3, DOWNTO CLEARD  *-6,AZONE SET A ZONE AFTER CARD STORAGE AREA *-6,INTRST&7 SET A ZONE IN BCE D-MODIFIER *-6,BLNKOK&7 *-6,INTCHR-1 ADD A ZONE TO INTERESTING CHARS PREFIX,CARD1-1 SET DEFAULT PREFIX TOPCOR,*&4 0-0 MVCHAR&6	7	1137	M N18 M13	42	2518	2413
392 1 159 MCW	TOPCOR. *&4	7	1144	M 688 /54	42	688	1154
393 1 166 CW	0-0	4	1151	) 000	42	000	
394 1 170 SBF	MVCHAR&6	4	1155	н т55	42	1355	
395 *							
396 * PROCESS 397 *	NEXT CARD						
397 *							

SEQ PG LIN	LABEL	OP	OPERANDS		SFX (	CT	LOCN	INSTRUCTION	N TYPE	CARD	A-ADDR	B-ADDR
398 1 174			MOVECD, FLAG					V /96 Q13			1196	2813
399 1 182 400	*	BCE	DONE, 1,:			8	116/	B !55 001	•	43	2055	001
401	* NO SY	STEM	AFTER END CARD									
402	*											
		CC	1				1175			43		
404 1 192		CS	332					/ 332		43	332	
405 1 196		CS	NGG1 0F0			1	1181	/		43	0.7.7.0	0.77.0
406 1 197 407 1 204		MCW W	MSG1,270			7 1	1182	M P72 270 2		43 43	2772	270
407 1 209		CC	1				1190			43		
409 1 207			HALT1					. /92		44	1192	
410	*							. ,				
411		CARD	TO SAVE AREA									
412	*			ARD TO SAVE AREA  IONAL AT FIRST, BECOMES BCV  D TO PRINT AREA  PRINT NOW IF COMMENT OP AFTER FIRST CARD		_						
	MOVECD	MCW	72,CARD72 MOVE C	ARD TO SAVE AREA		'/	1196	M 072 M85		44	072	2485
414 1 218 415 1 219		MCW MCW				1	1203	M		44 44		
416 1 220		BCE	DONE CARD1 :			8	1204	м В !55 M14	•	44	2055	2414
417 1 228		BIN	PRTHDG, UNCONDIT	IONAL AT FIRST, BECOMES BCV		5	1213	B K52		44	2252	2111
418 1 233		CS	300			4	1218	/ 300		44	300	
419 1 237		CS				1	1222	/		45		
420 1 238		MCW	72,283 MOVE CAR	D TO PRINT AREA		7	1223	/ 300 / M 072 283 M 006 215 B L43 M14 (		45	072	283
421 1 245		MCW	6,215			7	1230	M 006 215	~	45	006	215
422 1 252 423 1 260		BCE	LSTCMT, CARDI, C	PRINT NOW IF COMMENT		8	1237	B L43 M14 (	J	45 45	2343 1531	2414
424 1 264		BCE	NOTCHI BECOMES N	OP AFIER FIRST CARD		4 Ω	1245	D 7/21 M10	n	45	1531	2419
425 1 272		BCE	NOTCNT, CARDO, U			8	1257	B V31 M19	J		1531	2419
426	*	202	11010111, 0111120,			Ü	120.	2 (31 111)			1001	2127
427		INUATI	ON CARD									
428	*			BUMP CONTINUATION COUNT NINE OR FEWER? PUT ERROR MSG IN PRINT AREA HE CARD SET SAVE CHAR ADDR TO COL 7								
429 1 280		A	KP1,CNTCNT	BUMP CONTINUATION COUNT		7	1265	A N51 Q09	•	46	2551	2809
430 1 287 431 1 295		BCE MCW	CNTOK, CNTCNT-1, 0 CNTMSG, 300	NINE OR FEWER?		8	1272	B S87 Q08 ( M P87 300	J	46 46	1287 2787	2808 300
431 1 295			LIST T	HE CARD MAG IN PRINT AREA		1	1287	M P67 300		46	2/0/	300
433 1 303		MCW	CARD7A, SVCHAR&3	SET SAVE CHAR ADDR TO COL 7		7	1288	M M91 S98		46	2491	1298
434	*											
435		ESS TH	E CARD (NOTCNT COM	ES BACK HERE)								
436	*					_						
437 1 310			0-0,CHAR	SAVE A CHARACTER			1295 1302	M 000 Q16		47	000	2816
438 1 317 439 1 321		SW A	SVCHAR&1 K1,SVCHAR&3	BUMP ADDR OF CHAR TO SAVE				, S96 A M95 S98		47 47	1296 2495	1298
440 1 328		CW	CTICITAD c 1					) S96		47	1296	1290
441 1 332			BLNKOK	BRANCH IF COPYING EVERYTHING				N Z58			1958	
442 1 336		BCE	SVCHAR, CHAR,	SKIP BLANKS			1321	B S95 Q16		47	1295	2816
443 1 344		MCW	CHAR, *&8			7	1329	M Q16 T43		48	2816	1343
444 1 351		BCE	INTRST, INTCHR, 0	BRANCH IF COPYING EVERYTHING SKIP BLANKS		8	1336	B W85 L73		48	1685	2373
445		CHAIN	5			1	1244	-	MACRO	4.0		
446 447		BCE BCE					1344 1345		GEN GEN	48 48		
44/		DCE.				Т	1345	D	GEN	48		

				FORTRAN COMPILER PHASES 00-02			PAGE	9		
SEQ PG L	IN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD	A-ADDR	B-ADDR
498 1 6 499 1 6 500 1 6 501 1 6 502 1 6 503 1 6 504 1 6 505 1 6 507 1 6 508 1 6 509	11 15 22 29 33 37 44 51 58	MVCHR2	MCW CW MCW LCA SBR SBR MCW MCW MCW MCW B	OPERANDS  MVCHAR&6,MVCHR2&6  MVCHAR&4  MOVE,CRD6SW GM,0  X3 SAVE ADDRESS OF FIRST CHAR STORED  MVCHAR&6  COLON,CARD6 COLON AFTER LABEL, IF ANY  BRNCH2,CRD5SW  K20,COLCNT INITIALIZE COLUMN COUNTER  SAVE 2A,SVCHAR&3  SVCHAR  0&X2,KEND END CARD?  SVCHAR  FLAG  SVCHAR	7 4 7 7 7 4 4 7 7 7 7	1596 1600 1607 1614 1618 1622 1629 1636	M T55 W13 ) T53 M N22 U10 L N14 000 H 099 H T55 M N19 M19 M M96 U01 M M98 M88 M M94 S98 B S95	55 56 56 56 56 56 57 57	1355 1353 2522 2514 099 1355 2519 2496 2498 2494 1295	1613 1410 000 2419 1401 2488 1298
510 1 6 511 1 6 512 1 6 513 1 6 514	76 81	COL3	C BU CW B	0&X2,KEND END CARD? SVCHAR FLAG SVCHAR	7 5 4 4	1661 1666	C 0!0 Q12 B S95 / ) Q13 B S95	57	000+2 1295 2813 1295	2812
515 1 6 516 1 6 517		AT *	MCW B	KMINUS, CHAR CONVERT AT SIGN TO MINUS MVCHAR	7	1674 1681	M Q14 Q16 B T49	58 58	2814 1349	2816
518 519		* SAW A	AN INT	ERESTING CHARACTER						
520 1 7 521 1 7 522 1 7 523 1 7 524 1 7 525 1 7 526 1 7 527 1 7 528	08 16 24 32 39 43	INTRST	BCE BCE BCE BCE MCW MCW MCW B	TESTLC, CHAR, TEST FOR A ZONE TESTLC, CHAR, RECORD MARK SLASH, CHAR, AT, CHAR, WE KSTAR, 300 PROCD CHAR MVCHAR	8 8 8 8 7 4 4	1693 1701 1709 1717 1724 1728	B L58 Q16 B L58 Q16   B V20 Q16 / B W74 Q16 @ M Q15 300 M N33 M Q16 B T49	58 59 59 59	2358 1520 1674 2815 2533	2816 2816 2816 2816 300
529			ACTER							
530 531 1 7 532 1 7 533 1 7 534 1 7 535 1 7 536 1 7 537 1 7 538 1 8 539 1 8 540 1 8 541 542	58 65 72 79 86 94 02 09	AT2 *	MCW MCW MCW BCE BWZ MCW MCW BCW BCW BCW BCW MCW BCW	MVCHAR&6,X1 NOP,CRD3SW NOP,CRD4SW BRANCH,CRD2SW 4&X1,HCOUNT REMEMBER, SOURCE IS STORED BACKWARD AT2,HCOUNT-1,@ NZHM1,HCOUNT-1,2 HCOUNT-2,HCOUNT ONE DIGIT OF HOLLERITH COIUNT KZ2 TEST7	7 8 8 7 4	1743 1750 1757 1764 1771 1779 1787 1794	M 0 4 Q19 B X87 Q18 @ V Y02 Q18 2	60 60 60 60 61 61 61	1355 2534 2534 2796 004+1 1787 1802 2817 2821 1394	089 1379 1387 1317 2819 2818 2818 2819
542		* NO 20	ONE AI	HCOUNT-1						
544 1 8 545 1 8 546 1 8 547 1 8	25 33	NZHM1 AT3	BCE BWZ MCW MCW	AT3, HCOUNT,@ NZH, HCOUNT,2 HCOUNT-2, HCOUNT KZ1, HCOUNT-2	8 8 7 7	1810 1818	B Y18 Q19 @ V Y36 Q19 2 M Q17 Q19 M Q22 Q17	61 62	1818 1836 2817 2822	2819 2819 2819 2817

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Second   S			FORTRAN COMPILER PHASES 00-02				PAGE	10		
Section   Sect	SEQ PG LIN LABE	L OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD	A-ADDR	B-ADDR
**NO ZONE AT HCCUINT. REVERSE THE DIGITS   1851   N2H   MCW   HCCUINT. REVERSE THE DIGITS		В	TEST7		4	1832	В Т94	62	1394	
1		ZONE AT	F HCOUNT. REVERSE THE DIGITS							
Section   Sect	331	MCW	HCOINT WORKH1		7	1836	M 019 023	62	2819	2823
Second Content										
Second   S	554 1 865	MCW	·		7	1850	~ ~	62	2823	2817
**CONVERT ADDRESS TO FIVE DIGITS**  ***CONVERT ADDRESS TO FIVE DIGITS**  ***SEX***  ***SEX***  ***CONVERT ADDRESS TO FIVE DIGITS**  ***SEX***  ***SEX***  ***CONVERT ADDRESS TO FIVE DIGITS**  ***SEX***  C***CONVERT ADDRESS TO FIVE DIGITS**  ***SEX***  C***CONVERT ADDRESS TO FIVE DIGITS**  ***CONVERT ADDRESS TO		В	TEST7		4	1857	в т94	63	1394	
Section   Sect	330									
SEX   C		NVERT AI	DDRESS TO FIVE DIGITS							
Section   1 876	330	CEV	0							
Section   Sect				C	4	1861	ц 757	63	1057	
Section   Sect				_	_					
S63					_					
Section   Sect					_					2824
Second   1910	564 1 895	MZ		C	7			63	2543	2826
Section   Sect	565 1 902 LOOP	1 BWZ	LOOP2,CNVW2B-1,2			1887	V Z06 Q26 2	63	1906	2826
Solid   Soli			CNVKA0,CNVW2B				~ ~			2827
Section   1929					_					
570										
571										2825
572					_					2025
573   1 954										
574   1 958					•					2550
575   1 962   MZ				_	_					
\$777  ***  ***  **  **  **  **  **  **					7					2550
578         *           579         1 973         BLNKOK BCE         TESTLC, CHAR, TEST FOR A ZONE         8 1958         B L58 Q16         65 2358         2816           580         1 981         S         KP1, HCOUNT         7 1966         S N51 Q19         66 2551         2819           581         1 988         C         HCOUNT, PZE HOLLERITH COUNT DOWN TO ZERO?         7 1973         C Q19 Q34         66 2819         2834           582         1 995         BU MVCHAR         NOPE, JUST MOVE THE CHARACTER         5 1980         B T49 /         66 1349           583         2 000         MCW MOVE2, CRD4SW         7 1985         M Q35 T87         66 2815         1387           584         2 007         MCW NOP2, CRD2SW         7 1992         M N13 T17         66 2513         1317           585         2 014         MCW SVCHAR&3, X1         7 1999         M S98 089         67 1298         089           587         2 028         BE MVCHAR         TO 2006         C 0   0 26         67 000+1         2836           589         2 040         MCW OVCHAR&6,*&7         7 2018         M T55 !31         67 1355         2031           589         2 040         MCW OVCHAR&6         *         4 203	576 1 969 EXIT	В	0-0	C	4	1954	в 000	65	000	
STOP		SFX								
580 1 981 S KP1,HCOUNT 581 1 988 C HCOUNT,PZE HOLLERITH COUNT DOWN TO ZERO? 582 1 995 BU MVCHAR NOPE, JUST MOVE THE CHARACTER 583 2 000 MCW MOVE2,CRD4SW 7 1985 M Q35 T87 66 2835 1387 584 2 007 MCW NOP2,CRD2SW 7 1992 M N13 T17 66 2513 1317 585 2 014 MCW SVCHAR&3,X1 7 1999 M S98 089 67 1298 089 586 2 021 C 0&X1,COMMA 587 2 028 BE MVCHAR 588 2 033 MCW MVCHAR&6,*&7 589 2 040 MCW MVCHAR&6,*&7 589 2 047 MCW COMMA 589 2 040 MCW COMMA 590 2 047 MCW COMMA 590 2 047 MCW COMMA 591 2 055 A KP1,NCHAR 592 2 055 A KP1,NCHAR 593 2 062 B BUMPNS 594 2 066 B MVCHAR 595 *  * FINISHED READING THE SOURCE DECK	370									
581 1 988										
S82   1 995   BU   MVCHAR   NOPE, JUST MOVE THE CHARACTER   5 1980   B T49   7   66 1349							~ .			
583 2 000 MCW MOVE2,CRD4SW 7 1985 M Q35 T87 66 2835 1387 584 2 007 MCW NOP2,CRD2SW 7 1992 M N13 T17 66 2513 1317 585 2 014 MCW SVCHAR&3,X1 7 1999 M S98 089 67 1298 089 586 2 021 C 0&X1,COMMA 7 2006 C 0 0 Q36 67 000+1 2836 587 2 028 BE MVCHAR 5 5 2013 B T49 S 67 1349 588 2 033 MCW MVCHAR&6,*&7 7 2018 M T55 !31 67 1355 2031 589 2 040 MCW 0,0 7 2025 M 000 000 67 000 000 590 2 047 MCW COMMA 4 2032 M Q36 67 2836 591 2 051 SBR MVCHAR&6 4 2036 H T55 68 1355 592 2 055 A KP1,NCHAR 7 2040 A N51 P92 68 2551 2792 593 2 062 B BUMPNS 4 2047 B T60 68 1360 594 2 066 B MVCHAR 6 FINISHED READING THE SOURCE DECK			·							2834
584       2 007       MCW       NOP2,CRD2SW       7 1992       M N13 T17       66 2513       1317         585       2 014       MCW       SVCHAR&3,X1       7 1999       M S98 089       67 1298       089         586       2 021       C 0&X1,COMMA       7 2006       C 0 0 Q36       67 000+1       2836         587       2 028       BE MVCHAR       5 2013       B T49       S       67 1349         588       2 033       MCW MVCHAR&6,*&7       7 2018       M T55 !31       67 1355       2031         589       2 040       MCW 0,0       7 2025       M 000 000       67 000       000         590       2 047       MCW COMMA       4 2032       M Q36       67 2836         591       2 051       SBR MVCHAR&6       4 2036       H T55       68 1355         592       2 055       A KP1,NCHAR       7 2040       A N51 P92       68 2551       2792         593       2 062       B BUMPNS       4 2047       B T60       68 1360         594       2 066       B MVCHAR       4 2051       B T49       68 1349         595       *       * FINISHED READING THE SOURCE DECK		_								1387
585       2 014       MCW       SVCHAR&3,X1       7 1999       M S98 089       67 1298       089         586       2 021       C 0&X1,COMMA       7 2006       C 0 0 Q36       67 000+1       2836         587       2 028       BE MVCHAR       5 2013       B T49 S       67 1349         588       2 033       MCW MVCHAR&6,*&7       7 2018       M T55 !31       67 1355       2031         589       2 040       MCW 0,0       7 2025       M 000 000       67 000       000         590       2 047       MCW COMMA       4 2032       M Q36       67 2836         591       2 051       SBR MVCHAR&6       4 2036       H T55       68 1355         592       2 055       A KP1,NCHAR       7 2040       A N51 P92       68 2551       2792         593       2 062       B BUMPNS       4 2047       B T60       68 1360         594       2 066       B MVCHAR       4 2051       B T49       68 1349         595       *       * FINISHED READING THE SOURCE DECK										
586       2 021       C 0&X1,COMMA       7 2006 C 0 0 036       67 000+1 2836         587       2 028       BE MVCHAR       5 2013 B T49 S       67 1349         588       2 033 MCW MVCHAR&6,*&7       7 2018 M T55 !31       67 1355 2031         589       2 040 MCW 0,0       7 2025 M 000 000       67 000 000         590       2 047 MCW COMMA       4 2032 M Q36       67 2836         591       2 051 SBR MVCHAR&6       4 2036 H T55       68 1355         592       2 055 A KP1,NCHAR       7 2040 A N51 P92       68 2551 2792         593       2 062 B BUMPNS       4 2047 B T60       68 1360         594       2 066 B MVCHAR       4 2051 B T49       68 1349         595       *         * FINISHED READING THE SOURCE DECK										
588 2 033 MCW MVCHAR&6,*&7 7 2018 M T55 !31 67 1355 2031 589 2 040 MCW 0,0 7 2025 M 000 000 67 000 000 590 2 047 MCW COMMA 4 2032 M Q36 67 2836 591 2 051 SBR MVCHAR&6 4 2036 H T55 68 1355 592 2 055 A KP1,NCHAR 7 2040 A N51 P92 68 2551 2792 593 2 062 B BUMPNS 4 2047 B T60 68 1360 594 2 066 B MVCHAR 595 * 596 * FINISHED READING THE SOURCE DECK					7			67	000+1	
589 2 040 MCW 0,0 7 2025 M 000 000 67 000 000 590 2 047 MCW COMMA 4 2032 M 036 67 2836 591 2 051 SBR MVCHAR&6 4 2036 H T55 68 1355 592 2 055 A KP1,NCHAR 7 2040 A N51 P92 68 2551 2792 593 2 062 B BUMPNS 4 2047 B T60 68 1360 594 2 066 B MVCHAR 4 2051 B T49 68 1349 595 * FINISHED READING THE SOURCE DECK	587 2 028	BE	MVCHAR		5	2013	в т49 S	67	1349	
590 2 047 MCW COMMA 4 2032 M Q36 67 2836 591 2 051 SBR MVCHAR&6 4 2036 H T55 68 1355 592 2 055 A KP1,NCHAR 7 2040 A N51 P92 68 2551 2792 593 2 062 B BUMPNS 4 2047 B T60 68 1360 594 2 066 B MVCHAR 4 2051 B T49 68 1349 595 * FINISHED READING THE SOURCE DECK			·							
591       2 051       SBR       MVCHAR&6       4 2036       H T55       68 1355         592       2 055       A KP1,NCHAR       7 2040       A N51 P92       68 2551       2792         593       2 062       B BUMPNS       4 2047       B T60       68 1360         594       2 066       B MVCHAR       4 2051       B T49       68 1349         595       *         596       * FINISHED READING THE SOURCE DECK										000
592 2 055 A KP1,NCHAR 7 2040 A N51 P92 68 2551 2792 593 2 062 B BUMPNS 4 2047 B T60 68 1360 594 2 066 B MVCHAR 4 2051 B T49 68 1349 595 * 596 * FINISHED READING THE SOURCE DECK										
593 2 062 B BUMPNS 4 2047 B T60 68 1360 594 2 066 B MVCHAR 4 2051 B T49 68 1349 595 * 596 * FINISHED READING THE SOURCE DECK										2702
594 2 066 B MVCHAR 4 2051 B T49 68 1349 595 * 596 * FINISHED READING THE SOURCE DECK										4194
595 * 596 * FINISHED READING THE SOURCE DECK										
596 * FINISHED READING THE SOURCE DECK		ם	114 CITER		_	2001		0.0	1010	
597 *		NISHED E	READING THE SOURCE DECK							
	597 *									

FORTRAN COMPILER -- PHASES 00-02 PAGE 11 OPERANDS SFX CT LOCN INSTRUCTION TYPE CARD A-ADDR B-ADDR SEQ PG LIN LABEL OP 7 2055 M T55 089 68 1355 (
7 2062 L N14 0 | 0 68 2514 (
4 2069 H 089 68 089 69 2 2073 F 1 69 69 2792 69 2852 69 2852 69 2852 69 2095 F J 69 2095 F J 69 2097 M Q07 183 70 2867 7 2097 M Q07 183 70 2863 4 2111 H 089 70 089 4 2115 , 0 | 2 70 002+1 7 2119 A N51 183 70 2551 8 2126 B J38 700 70 2138 4 2134 B K18 71 2218 7 2138 H 710 R99 71 710 72 2145 H 833 838 71 833 72 2157 L Q70 110 71 2870 4 2164 / 080 71 080 72 2168 , 001 040 72 001 72 2175 , 047 054 72 207 72 072 8 2193 B 700 769 N 72 72 072 8 2193 B 700 769 N 72 72 072 8 2193 B 700 769 N 72 72 070 1 2201 1 72 2202 C 007 Q77 73 007 5 2209 B 700 S 73 700 4 2214 B /75 73 1175 598 2 070 DONE MVCHAR&6,X1 089 MCW 599 2 077 LCA GM, 0&X1 000+1600 2 084 SBR X1 601 2 088 CC 1 CS 332 602 2 090 603 2 094 CS 604 2 095 205 MCS NCHAR, 205 605 2 102 MSGCHR, 222 MCW 222 606 2 109 607 2 110 W CC .T 608 2 112 MCW NSTMT, NSTMTS 183 609 2 119 LCA STOP,0&X1 000+1610 2 126 SBR X1 611 2 130 SW 2&X1 612 2 134 KP1.NSTMTS 183 A 613 2 141 BCE NOTBIG, 3000, 3000 614 2 149 В BIGSRC 615 2 153 NOTBIG SBR CLEARL&3,2999 616 2 160 SBR CLRBOT,BEGIN2 CHANGE ADDRESS TO CLEAR DOWN TO 2999 838 617 2 167 BSS SNAPSH, C LCA SCANR1, PHASID SCANNER
CS 80 GET
SW 1,40 READY
SW 47,54 FOR
SW 61,68 CARD
SW 72 OVERLAY 618 2 172 619 2 179 110 620 2 183 040 621 2 190 054 622 2 197 068 623 2 204 624 2 208 BCE LOADNX, CDOVLY, N RUNNING FROM TAPE? 769 625 2 216 R 626 2 217 C 7,SCANR2 2877 627 2 224 BELOADNX 628 2 229 В NOSYS 629 630 \* SOURCE PROGRAM TOO BIG 631 

 4
 2218
 / 332
 73
 332

 1
 2222
 /
 73

 2
 2223
 F 1
 73

 7
 2225
 M R13
 270
 73
 2913

 1
 2232
 2
 74

 632 2 233 BIGSRC CS 332 633 2 237 CS 634 2 238 CC 1 635 2 240 MCW MSG2,270 270 1 2232 2 636 2 247 2 2233 F 1 637 2 248 74 2 2233 F 1 8 2235 B K48 769 1 5 2243 U %U1 R 4 2248 . K48 74 2248 74 %U1 638 2 250 BCE HALT2, CDOVLY, 1 RUNNING FROM CARDS? 769 639 2 258 1 NO, REWIND THE TAPE RWD 640 2 263 HALT2 H 74 2248 HALT2 4 2248 . K48 641 642 \* PRINT LISTING PAGE HEADING 643 644 2 267 PRTHDG CC 2 2252 F 1 1 7 2254 M Q04 S17 74 2804 4 2261 / 299 75 299 645 2 269 MCW KAT, C12T&4 CHANGE TO BCV 1217 646 2 276 CS 299 4 2261 / 299 75 299 7 2265 A M95 R16 75 2495 647 2 280 A K1, PAGNUM 2916

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			FORTRAN COMPILER PHASES 00-02	PAGE 12							
SEQ PG LIN	LABEL	OP	OPERANDS	S	FX CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
648 2 287 649 2 294 650 2 301 651 2 305 652 2 306		MCS MCW MCW W CS	PAGNUM, 299 KPAGE, 295 80		7 7 4 1 4	2272 2279 2286 2290 2291	Z R16 299 M R24 295 M 080 2		75 75 75 75	2916 2924 080	299 295
653 2 310 654 2 317 655 2 318 656 2 320 657		MCW W CC B	PAGHDG, 234  J AFTHDG		7 1 2 4	2295 2302 2303 2305	Z R16 299 M R24 295 M 080 2 / 299 M M08 234 2 F J B S18		76 76 76 76	2408	234
658 659	* NO PA		TER CARD								
660 2 324 661 2 326 662 2 330 663 2 331		CC CS CS MCW	1 332 MSG3 270		2 4 1 7	2309 2311 2315 2316	F 1 / 332 / M R53 270 2		76 76 76	332 2953	270
664 2 338 665 2 339 666 2 341 667 2 349		W CC BCE RWD	1 332 MSG3,270  1 HALT3,CDOVLY,1 RUNNING FROM CARDS? 1 NO, REWIND THE TAPE HALT3		1 2 8 5	2324 2326	2 F 1 B L39 769 1 U %U1 R		77 77 77 77	2339 %U1	769
668 2 354 669	HALT3	Н	HALT3		4	2339	. L39		77	2339	
670 671	* LIST	COMME	ENT CARD								
672 2 358 673 2 365 674 2 372	LSTCMT	MCW W	FINAL,203 5,211		7 7 1	2343 2350 2357	M R56 203 M 005 211 2		77 78 78	2956 005	203 211
675 2 373 676 2 378 677 2 379 678		BLC R B	DONE RDLOOP		1 4	2358	B !55 A		78 78	2055 1159	
679 2 388 680 2 423 681 682	*	DCW	@\$@/  @ INTERESTING CHARACTERS @ SEQ STMNT FORTRAN STATEMENT@		6 35	2373 2408			78 79		
683	* CARD *										
684 685 686 687 688 689 690 691	SAVE 2 CARD1 CARD6 CARD7 CARD72 AZONE		1X78 2 6 11 12 77 78 AND WORK AREAS			2409 2410 2414 2419 2420 2485 2486	2486	SBFLD SBFLD SBFLD SBFLD SBFLD SBFLD	79		
693 694 2 503	*		#2		2	2488			80		
695 2 506 696 2 509 697 2 510	CARD7A SAVE2A	DSA	CARD7 ADDRESS OF COLUMN 7 IN SAVE AREA SAVE2		3 3 1	2491 2494	M20 M10		80 80 80	2420 2410	

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	FORTRAN COMPILER PHASES 00-02	PAGE 14	
SEQ PG LIN LABEL OP	OPERANDS	SFX CT LOCN INSTRUCTION TYPE CARD A	-ADDR B-ADDR
748 2 849 PZE DCW	&000 PLUS ZERO	3 2834 92	
749 2 850 MOVE2 MCW		1 2835 M 92	
750 2 851 COMMA DCW	@,@	1 2836 92	
751 2 867 MSGCHR DCW	@INPUT CHARACTERS@	16 2852 93	
752 2 878 STOP DCW	<pre>@ }POTS:R000@ STOP SPELLED BACKWARD, ETC.</pre>	11 2863 93	
753 2 885 SCANR1 DCW	@SCANNER@	7 2870 93	
754 2 892 SCANR2 DCW	@SCANNER@	7 2877 94	
755 2 928 MSG2 DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36 2913 95	
756 2 931 PAGNUM DCW	#3	3 2916 95	
757 2 939 KPAGE DCW	@ PAGE @	8 2924 96	
758 2 968 MSG3 DCW	@MESSAGE 3 - NO PARAMETER CARD@	29 2953 96	
759 2 971 FINAL DCW	#3	3 2956 97	
760 ORG	2999	2999	
761 2 999 GMWM DCW	@}@	1 2999 GMARK 98	
762 EX	BEGIN2	В 838 99	838
763 END		/ 838 080	838

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SYMBOL	ADDRESS										
ACTSIZ	2628: 0	ADCONV	1861: 0	ADR5 S	0658: 0	AFTHDG	1218: 0	ARYSIZ	0160: 0	ARYTOP	0194: 0
AT	1674: 0	AT2	1787: 0	AT3	1818: 0	AZONE	2486: 0	BEGIN1	0838: 0	BEGIN2	0838: 0
BIGNUF	1081: 0	BIGSRC	2218: 0	BLANKL	0834: 0	BLNKOK	1958: 0	BOTCOR	2795: 0	BOTFMT	0154: 0
BRANCH	2796: 0	BRNCH2	2496: 0	BUMP3S	0632: 0	BUMPNS	1360: 0	C12T	1213: 0	C1410	0695: 0
CARD	0853: 0	CARD1	2414: 0	CARD6	2419: 0	CARD7	2420: 0	CARD72	2485: 0	CARD7A	2491: 0
CDOVLY	0769: 0	CHAR	2816: 0	CLEARD	1088: 0	CLEARH	0433: 0	CLEARL	0707: 0	CLRBOT	0833: 0
CLRL L	0742: 0	CLRWML	0754: 0	CNTCNT	2809: 0	CNTMSG	2787: 0	CNTOK	1287: 0	CNVKA0	2829: 0
CNVKQ4	2831: 0	CNVW2A	2825: 0	CNVW2B	2827: 0	COL3	1654: 0	COLCNT	2488: 0	COLON	2519: 0
COMMA	2836: 0	CONDNS	0693: 0	CONT S	0568: 0	CONVTD	2550: 0	COR5	2633: 0	CORSIZ	2542: 0
CRD1SW	1245: 0	CRD2SW	1317: 0	CRD3SW	1379: 0	CRD4SW	1387: 0	CRD5SW	1401: 0	CRD6SW	1410: 0
DOCNT	0151: 0	DONE	2055: 0	DOTS S	0651: 0	DOWM S	0520: 0	DOWNTO	2731: 0	ECOUNT	0837: 0
EINITL	0835: 0	EXIT C	1954: 0	EXIT S	0564: 0	EXPF	0120: 0	FINAL	2956: 0	FLAG	2813: 0
FLOATF	0125: 0	FMTSW	0696: 0	GET S	0497: 0	GLOBER	0184: 0	GM	2514: 0	GMWM	2999: 0
GMWM1	0900: 0	GOTXL	0185: 0	HALT S	0563: 0	HALT1	1192: 0	HALT2	2248: 0	HALT3	2339: 0
HCOUNT	2819: 0	HOLLER	1736: 0	IMOD	0690: 0	INTCHR	2373: 0	INTRST	1685: 0	K1	2495: 0
K10	2521: 0	K20	2498: 0	K3900	2643: 0	K9 S	0665: 0	K999 L	0830: 0	KAT	2804: 0
KEND	2812: 0	KF	2803: 0	KFMT	2512: 0	KM10 S	0667: 0	KMINUS	2814: 0	KP1	2551: 0
KP1 S	0670: 0	KP15 S	0672: 0	KP2 S	0662: 0	KPAGE	2924: 0	KPARAM	2539: 0	KSTAR	2815: 0
KZ1	2822: 0	KZ2	2821: 0	KZ3 S	0661: 0	LOADNX	0700: 0	LOGF	0119: 0	LOOP S	0459: 0
LOOP1C	1887: 0	LOOP2C	1906: 0	LP2X C	1925: 0	LSTCMT	2343: 0	MANTIS	0692: 0	MOVE	2522: 0
MOVE 2	2835: 0	MOVECD	1196: 0	MSG1	2772: 0	MSG2	2913: 0	MSG3	2953: 0	MSGCHR	2852: 0
MVCHAR	1349: 0	MVCHR2	1607: 0	NCHAR	2792: 0	NEGAR2	0142: 0	NEGAR3	0157: 0	NEGARY	0163: 0
NOP	2534: 0	NOP1	0871: 0	NOP2	2513: 0	NOPARM	2309: 0	NOSYS	1175: 0	NOTBIG	2138: 0
NOTCNT	1531: 0	NSTMT	2807: 0	NSTMTS	0183: 0	NZH	1836: 0	NZHM1	1802: 0	ONE L	0836: 0
PAGHDG	2408: 0	PAGNUM	2916: 0	PARAM	0699: 0	PHASID	0110: 0	PREFIX	2518: 0	PROCD	2533: 0
PRTHDG	2252: 0	PSGTM	1062: 0	PWORD	0685: 0	PZE	2834: 0	RDAGIN	0773: 0	RDLOOP	1159: 0
RELTAB	0188: 0	RX1 S	0535: 0	SAVE2	2410: 0	SAVE2A	2494: 0	SAWABS	0122: 0	SAWNEG	0123: 0
SCANR1	2870: 0	SCANR2	2877: 0	SEQTAB	0148: 0	SERIES	0117: 0	SGTM	2707: 0	SGTM2	2728: 0
SINCOS	0118: 0	SIZERR	2661: 0	SKIP S	0621: 0	SLASH	1520: 0	SNAPSH	0333: 0	SNAPSW	0694: 0
SPSIZE	2605: 0	STMSG	2579: 0	STOP	2863: 0	SUBENT	0191: 0	SUBSCR	0116: 0	SVCHAR	1295: 0
SX1 S	0416: 0	SX3 S	0409: 0	SXX S	0402: 0	TBLBOT	0145: 0	TEST7	1394: 0	TESTLC	2358: 0
TOCONV	2545: 0	TOP5	2638: 0	TOPCOR	0688: 0	TPERRL	0797: 0	TPREAD	0780: 0	USEACT	1074: 0
W2A S	0664: 0	W2B S	0669: 0	WORK6	2802: 0	WORK7	2505: 0	WORKH1	2823: 0	X1	0089: 0
X2	0094: 0	X3	0099: 0	XFIXF	0124: 0	XQTD S	0680: 0	XXXXX1	0089: 0	XXXXX2	0094: 0
XXXXX3	0099: 0										

## UNREFERENCED SYMBOLS

ARYSIZ ARYTOP BOTFMT CONDNS DOCNT EXPF FLOATF FMTSW GLOBER GMWM GOTXL IMOD LOGF MANTIS NEGAR2 NEGAR3 NEGARY RELTAB SAWABS SAWNEG SEQTAB SERIES SINCOS SNAPSW SUBENT SUBSCR TBLBOT XFIXF