

KIM

GEBRUIKERS CLUB NEDERLAND

SOFTWARE

PROGRAM: PC001

POCKET CALCULATOR PROGRAM

BY: SIEP DE VRIES

Classification code: 00.012.320

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POCKET CALCULATOR PROGRAM				Number: PC001
DESCRIPTION			Blad: 1 of 17	

POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN	DATE 04/03/77 - PAGE 1	OPERAND	OPER	LABEL	OBJECT CODE	LOC	CARC #
<pre> ***** * * THE FOLLOWING PROGRAM IS * * A POCKET CALCULATOR * * * * INPUT/OUTPUT IS EITHER TELETYPE * * OR KIM KEYBOARD AND DISPLAY * * * * INPUT IS GIVEN BY PRESSING THE * * KEYS FOR A DECIMAL NUMBER * * FOLLOWED BY A FUNCTIONKEY. * * * * FUNCTIONS: * * * * A = + = ADD NUMBER TO RESULT * * B = - = SUBTRACT NUMBER FROM RESULT * * C = * = MULTIPLY RESULT BY NUMBER * * D = / = DIVIDE RESULT BY NUMBER * * E = C = CLEAR INPUT NUMBER * * F = A = CLEAR RESULT * * AD = R = REMAINDER OF LAST DIVISION * * DA = I = NUMBER STORED IN MEMORY * * * = C = NUMBER FROM MEMORY * * PC = % = CALCULATE PERCENTAGE * * GO = C = CLEAR RESULT * * * * THE PROGRAM MAKES USE OF THE * * INTEGER CALCULATING PACKAGE: * * 'INTCAL', PARTNO 770110 * * A 3-BYTE VERSION IS USED ***** </pre>							

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POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN					POCKET CALCULATOR PROGRAM		Number: PC001	
DATE 04/03/77 - PAGE 2							Blad: 2 of 17	
CARC #	LOC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS		
33						*****		
34						* * *		
35						DEFINITIONS:		
36						* * *		
37						*****		
38						*****		
39						*****		
40						*****		
41	17FE			INITRP=f17FE		*****		
42	17FA			NMITRP=f17FA		*****		
43						*****		
44						*****		
45						*****		
46						*****		
47						*****		
48						* * *		
49						CALCULATOR SUBROUTINES:		
50						* * *		
51						*****		
52						*****		
53						*****		
54	0313			LOAD=f313		*****		
55	0327			STORE=f327		*****		
56	0335			ADD=f335		*****		
57	0347			SUB=f347		*****		
58	035F			MPY=f35F		*****		
59	03AC			DVI=f3AC		*****		

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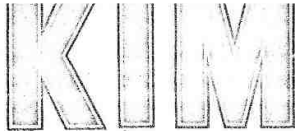
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[illegible]

POCKET CALCULATOR PROGRAM		Number: PC001	
DEFINITIONS (CONT'D)		Blad: 4 of 17	
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN	CATE 04/03/77 - PAGE 4		
CARC #	LOC	OBJECT CODE	LABEL
		OPER	OPERAND
			COMMENTS
91			*****
92			*****
93			*****
94			*****
95			*****
96			*****
97			*****
98			*****
99			*****
100	002B		PLUS=f2B
101	002C		MIN=f2D
102	002A		MAAL=f2A
103	002F		DEEL=f2F
104	0043		CLRNUM=f43
105	0041		CLRALL=f41
106	0052		REP=f52
107	0049		MEMIN=f49
108	004F		MEMOUT=f4F
109	0025		PRCNT=f25
110	003F		VRAAG=f3F
111	1740		PIADAT=f1740
112			PIA TO TEST ITT/KIM
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POCKET CALCULATOR PROGRAM							Number:	PC001
MAIN LINE							Blad:	6 of 17
DATE 04/03/77 - PAGE 6								
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS		
136			**=C					
137			BEGIN	JMP	CALCUL			
138			**=PREV+1					
139			;					
140			CALCUL			INITIALIZE		
141	000C	4C 1E 00						
142	001E	D8						
143	001F	78 C0						
144	0022	8D FE 17						
145	0025	8D FA 17						
146	0028	A9 1C						
147	002A	8D FF 17						
148	003C	A0 C0						
149	0032	A2 03						
150	0034	20 13 03						
151	0037	A2 09						
152	0035	20 27 03						
153	003C	20 00 02						
154	003F	A2 F9						
155	0041	A0 00						
156	0043	C9 28						
157	0045	D0 C5						
158	0047	20 35 03						
159	004A	B0 42						
160	004C	C9 20						
161	004E	DC 05						
162	0050	20 47 03						
163	0053	BC 39						
164	0055	C9 2A						
165	0057	DC C5						
166	0059	20 5F 03						
167	005C	B0 30						
168	005E	C9 2F						
169	0060	D0 C5						
170	0062	20 AC 03						
171	0065	C9 2F						
172	0060	D0 C5						
173	0062	20 AC 03						
174	0065	C9 2F						
175	0060	D0 C5						
176	0062	20 AC 03						
177	0065	C9 2F						
178	0060	D0 C5						
179	0062	20 AC 03						
180	0065	C9 2F						
181	0060	D0 C5						
182	0062	20 AC 03						
183	0065	C9 2F						
184	0060	D0 C5						
185	0062	20 AC 03						
186	0065	C9 2F						
187	0060	D0 C5						
188	0062	20 AC 03						
189	0065	C9 2F						
190	0060	D0 C5						
191	0062	20 AC 03						
192	0065	C9 2F						
193	0060	D0 C5						
194	0062	20 AC 03						
195	0065	C9 2F						
196	0060	D0 C5						
197	0062	20 AC 03						
198	0065	C9 2F						
199	0060	D0 C5						
200	0062	20 AC 03						

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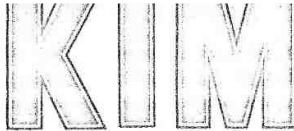
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POCKET CALCULATOR PROGRAM										Number:	PC001
MAIN LINE (CONT'D).										Blad:	7 OF 17
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN										DATE 04/03/77 - PAGE 7	
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS					
175	0065	B0 27		BCS	PROBLM						
176	0067	C9 41	NODEEL	CMP	#CLRALL						
177	0069	D0 05		BNE	NOCLER	CARRY CLEAR IS ERROR					
178	0068	A2 03	CLEAR	LDX	#NULL						
179	006D	20 13 03		JSR	LOAD	JUST LOAD ZERO					
180	007C	C9 25	NOCLER	CMP	#PRCNT						
181	0072	D0 0C		BNE	NOPER						
182			:								
183	0074	20 5F 03		JSR	MPY	MULTIPLY BY					
184	0077	BC 15		BCS	PROBLM	PERCENTAGE					
185	0079	A2 06		LDX	#EENHON						
186			:								
187	0078	20 AC 03		JSR	DVI	DIVIDE BY					
188	007E	B0 0E		BCS	PROBLM	ONE HUNDRED					
189			:								
190	0080	C9 52		CMP	#REP						
191	0082	D0 05	NOPER	BNE	NOREM						
192	0084	A2 E3		LDX	#DACC						
193	0086	20 13 03		JSR	LOAD						
194	0089	4C 3C 00	NOREM	JMP	GETINP						
195	008C	EA EA		NOP	NOP						
196	008E	20 BD 02	PROBLM	JSR	ERROR						
197	0091	4C 3C 00		JMP	GETINP						

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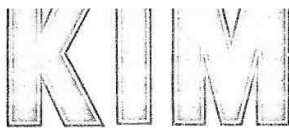
POCKET CALCULATOR PROGRAM					Number: PC001	
I/O SUBROUTINES					Blad: 8 OF 17	
DATE 04/03/77 - PAGE 8						
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS
198			*****			*****
199			*****			*****
200			*****			*****
201			*****			*****
202			*****			*****
203			*****			*****
204			*****			*****
205			*****			*****
206			*****			*****
207			*****			*****
208			*****			*****
209			*****			*****
210			*****			*****
211			*****			*****
212			*****			*****
213			*****			*****
214			*****			*****
215			*****			*****
216			*****			*****
217	020C	A2	F9	LDX	#DATA	PERFORM OUTPUT
218	0202	A0	00	LCY	#0	FIRST
219	0204	20	27	JSR	STORE	
220	0207	20	A7	JSR	OUTPUT	
221	020A	A9	00	LCA	#0	CLEAR DIGIT-
222	020C	85	1C	STA	NUMCAR	COUNTER
223	020E	20	71	JSR	INCHAR	READ NEXT CHARACTER
224	0211	C9	43	CMP	#CLRNUM	CLEAR NUMBER
225	0213	F0	E8	BEG	INPUT	RE-DISPLAY RESULT
226	0215	C9	49	CMP	#MEMIN	
227	0217	D0	0F	BNE	NOVEMI	
228	0219	A5	F9	LCA	DATA	MEMORY IN
229	021B	85	09	STA	MEMORY	DISPLAY NUMBER
230	021C	A5	FA	LCA	DATA+1	
231	021F	85	0A	STA	MEMORY+1	
232	0221	A5	FB	LCA	DATA+2	
233	0223	85	0B	STA	MEMORY+2	
234	0225	4C	07	JSR	WERONP	
235	0228	C9	4F	CMP	#MEMOUT	NUMBER COMES
236	022A	D0	CF	BNE	TESDEC	FROM MEMORY



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POCKET CALCULATOR PROGRAM						Number:	PC001
I/O SUBROUTINES (CONT'D)						Blad:	9 OF 17
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN						DATE 04/03/77 - PAGE 9	
CARC #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
237	022C	A5 09		LDA	MEMRY	DISPLAY IT	
238	022E	85 F9		STA	DATA		
239	023C	A5 CA		LCA	MEMRY+1		
240	0232	85 FA		STA	DATA+1		
241	0234	A5 08		LCA	MEMRY+2		
242	0236	85 FB		STA	DATA+2		
243	0238	4C 07 02		JMP	WERGNP		
244	0238	C9 3C	TESDEC	CMP	#f30		
245	023D	10 01		BPL	GODEC		
246	023F	60	NODEC	RTS			
247	024C	C9 3A	GODEC	CMP	#f3A	LEAVE CHARACTER UNKNOWN	
248	0242	10 FB		BPL	NODEC		
249	0244	A6 1C		LDX	NUMCAR	IT'S DECIMAL	
250	0246	00 C8		BNE	NOTFRS		
251	0248	A0 00		LDY	#0	FIRST DIGIT CLEARS NUMBER	
252	024A	84 F9		STY	DATA		
253	024C	84 FA		STY	DATA+1		
254	024E	84 FB		STY	DATA+2		
255	0250	38	NOTFRS	SEC		OBTAIN VALUE DIGIT LEFT POSITIONED IN ACC	
256	0251	E9 30		SBC	#f30		
257	0253	2A		RCL			
258	0254	2A		RCL			
259	0255	2A		RCL			
260	0256	2A		RCL			
261	0257	A2 04		LCX	#4	SHIFT DIGIT IN	
262	0259	2A	RCLWR	RCL			
263	025A	26 F9		RCL	DATA		
264	025C	26 FA		RCL	DATA+1		
265	025E	26 FB		RCL	DATA+2		
266	026C	CA		DEX			
267	0261	D0 F6		BNE	ROLWER		
268	0263	E6 1C		INC	NUMCAR		
269	0265	A5 1C		LDA	NUMCAR		
270	0267	C9 07		CMP	#7	TEST IF TOO MANY DIGITS	
271	0269	30 A3		BMI	WERINP		
272	026B	20 BC 02		JSR	ERROR		
273	026F	4C CC 02		JMP	INPUT		
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POCKET CALCULATOR PROGRAM						Nummer: PC001
I/O SUBROUTINES (CONT'D)				READ FROM KIM OR TTY		Blad: 10 OF 17
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMKEN	DATE 04/03/77 - PAGE 10					
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS
274						*****
275						* * * SUBROUTINE TO READ A
276						* * * CHARACTER FROM KIM OR TTY
277						* * * OUTPUT IS IN ASCII
278						*****
279						* * * * *
280						*****
281						* * * * *
282						*****
283						* * * * *
284						*****
285						* * * * *
286						*****
287						* * * * *
288						*****
289						* * * * *
290						*****
291						* * * * *
292						*****
293						* * * * *
294						*****
295						* * * * *
296						*****
297						* * * * *
298						*****
299						* * * * *
300						*****
301						* * * * *
302						*****
303						* * * * *
304						*****
305						* * * * *
274						*****
275						* * * SUBROUTINE TO READ A
276						* * * CHARACTER FROM KIM OR TTY
277						* * * OUTPUT IS IN ASCII
278						*****
279						* * * * *
280						*****
281						* * * * *
282						*****
283						* * * * *
284						*****
285						* * * * *
286						*****
287						* * * * *
288						*****
289						* * * * *
290						*****
291						* * * * *
292						*****
293						* * * * *
294						*****
295						* * * * *
296						*****
297						* * * * *
298						*****
299						* * * * *
300						*****
301						* * * * *
302						*****
303						* * * * *
304						*****
305						* * * * *

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POCKET CALCULATOR PROGRAM					Nummer: PC001	
I/O SUBROUTINES (CONT'D)			OUTPUT TO TTY		Blad: 11 of 17	
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS
306						*****
307						*****
308						*****
309						*****
310						*****
311						*****
312						*****
313						*****
314						*****
315	02A7	A9 01	OUTPUT	LCA	#1	*****
316	02A9	2C 40 17		BIT	PIADAT	*****
317	02AC	F0 01		BEQ	ITSTTY	*****
318	02AE	6C		RTS		*****
319	02AF	A2 02	ITSTTY	LCX	#2	*****
320	02B1	B5 F9	WTYP	LCA	DATA,X	*****
321	02B3	20 3B 1E		JSR	PR1BYT	*****
322	02B6	CA		CEX		*****
323	02B7	10 F8		BPL	WTYP	*****
324	02B9	20 2F 1E	OUTYP	JSR	CRLF	*****
325	02BC	60		RTS		*****

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POCKET CALCULATOR PROGRAM						Number: PC001	
I/O SUBROUTINES (CONT'D)			ERROR SUBROUTINE			Blad: 12 of 17	
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN	DATE 04/03/77 - PAGE	12					
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
326			;	*****	*****	*****	
327			;	*		*	
328			;	*	ERROR SUBROUTINE	*	
329			;	*		*	
330			;	*****	*****	*****	
331			;	*****	*****	*****	
332			;	*****	*****	*****	
333			;	*****	*****	*****	
334	02BD	A9 C1	ERROR		#1		
335	02BF	2C 40 17		LDA	PIADAT		
336	02C2	F0 CA		BIT	TTYERR		
337	02C4	A2 02		BEQ	#SIZE-1		
338	02C6	A9 FF		LDA	#JFF		
339	02C8	95 CD		STA	ACCU,X		
340	02CA	CA	SETFUL	DEX			
341	02CB	10 FB		BPL	SETFUL		
342	02CC	60		RTS			
343	02CE	A9 3F	TTYERR	LDA	#VRAAG		
344	02D0	20 A0 1E		JSR	OUTCH		
345	02D3	4C B9 02		JMP	OUTYP		

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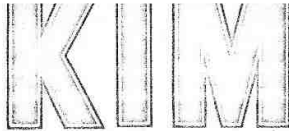
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INTEGER PACKAGE 'INTCAL' - COPYRIGHT WESTVRIES						DATE 04/03/77 - PAGE 13	POCKET CALCULATOR PROGRAM		Number: PC001
INTEGER PACKAGE 'INTCAL'						DESCRIPTION + DEFINITIONS			Blad: 13 OF 17
CARC #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS			
346			*	*		*****			
347			*	*		*****			
348			*	*		*****			
349			*	*		*****			
350			*	*		*****			
351			*	*		*****			
352			*	*		*****			
353			*	*		*****			
354			*	*		*****			
355			*	*		*****			
356			*	*		*****			
357			*	*		*****			
358			*	*		*****			
359			*	*		*****			
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367			*	*		*****			
368			*	*		*****			
369			*	*		*****			
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371			*	*		*****			
372			*	*		*****			
373			*	*		*****			
374			*	*		*****			
375		CCC3				*****			
376						*****			
377		OOC3				*****			
378		OCE3				*****			
379						*****			
380		CCE9				*****			
381		OCEB				*****			
382		COEC				*****			
383		COEC				*****			
384		COEE				*****			

INTEGER PACKAGE 'INTCAL' - COPYRIGHT WESTVRIES							DATE 04/03/77 - PAGE 14	POCKET CALCULATOR PROGRAM		Number: PC001
CARL #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS			Blad: 14 OF 17	
385						*****				
386						*****				
387						*****				
388						*****				
389						*****				
390						*****				
391						*****				
392						*****				
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POCKET CALCULATOR PROGRAM										Number: PC001	
INTEGER PACKAGE 'INTCAL'										Blad: 15 OF 17	
DATE 04/03/77 - PAGE 15											
INTEGR PACKAGE 'INTCAL' - COPYRIGHT WESTVRIES											
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS					
424	0333	30 EA		BMI	ALGOUT						
425	0335	20 00 03	ADD	JSR	BEGALG	ADD INTG ACCU					
426	0338	18		CLC							
427	0339	B9 CC 00	NACC	LCA	ACCU,Y						
428	033C	71 E9		ACC	{LOADAD},Y						
429	033E	99 CC 00		STA	ACCU,Y						
430	0341	C8		INY							
431	0342	CA		DEX							
432	0343	10 F4		BPL	NACC						
433	0345	30 D8		BMI	ALGOUT						
434	0347	20 CC 03	SUB	JSR	BEGALG						
435	034A	38		SEC		SUBTRACT FROM ACCU					
436	034B	B9 CC 00		LCA	ACCU,Y						
437	034E	F1 E9	NSUB	SEC	{LOADAD},Y						
438	0350	99 CC 00		STA	ACCU,Y						
439	0353	C8		INY							
440	0354	CA		DEX							
441	0355	10 F4		BPL	NSUB						
442	0357	BC 03		BCS	CLICAR						
443	0359	38	SETCAR	SEC							
444	035A	B0 C3		BCS							
445	035C	18	CLICAR	CLC	ALGOUT						
446	035D	90 C0	MPY	BCC							
447	035F	86 E9		STX	ALGOUT						
448	0361	84 EA		STY	LOADAD+1						
449	0363	85 E8		STA	LOADAD						
450	0365	A2 C6		LCA	SAVACC						
451	0367	B5 CC	WIMPY	LDX	#SIZE*2						
452	0369	95 E2		STA	ACCU-1,X						
453	036B	A9 C0		LCA	DACCU-1,X						
454	036D	55 CC		STA	#C						
455	036F	CA		DEX	ACCU-1,X						
456	037C	D0 F5		BNE	WIMPY						
457	0372	A8		TAY							
458	0373	A9 03		LCA	#SIZE						
459	0375	85 ED		STA	MULCNT						
460	0377	F8	OUTLUP	SED							
461	0378	B1 E9		LCA	{LCADAD},Y						
462	037A	85 EC		STA	MULIND						
463	037C	FC 1C		BEQ	NACC						

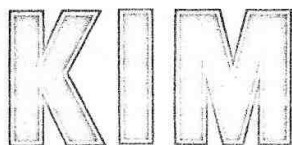
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POCKET CALCULATOR PROGRAM						Nummer:	PC001
INTEGER PACKAGE 'INTCAL'						Blad:	16 OF 17
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CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
464	C37E 18		PELTER	CLC	#SIZE*2		
465	C37F A9 06			LDA	COUNT		
466	C381 85 EE			STA	#0		
467	C383 A2 00			LDA	ACCU,X		
468	C385 85 CC		WERADD	ACC	DACCU,X		
469	C387 75 E3			STA	ACCU,X		
470	C379 95 CC			INX	COUNT		
471	C38B E8			DEC	WERADD		
472	C38C C6 EE			BNE	ALGOUT		
473	C38E D0 F5			BCS	MULIND		
474	C39C B0 8C		ULGO	LDA	#0		
475	C392 A5 EC			SPC	MULIND		
476	C394 E9 CC			STA	PEUTER		
477	C396 B5 EC			BNE	#SIZE*2-1		
478	C398 D0 E4			LDA	DACCU-1,X		
479	C39A A2 05		NOADD	LDA	DACCU,X		
480	C39C B5 E2		WUSTUR	STA			
481	C39E 95 E3			DEX			
482	C3A0 CA			BNE	WUSTUR		
483	C3A1 D0 F9			STX	DACCU		
484	C3A3 86 E3			INX			
485	C3A5 C8			DEC	MULCAT		
486	C3A6 C6 ED			BNE	OUTLUP		
487	C3A8 D0 CE			BEQ	CLICAR		
488	C3AA FC B0		PULGO	STX	LOADAD+1		
489	C3AC 86 E9		DVI	STY	ACCSAV		
490	C3AE 84 EA			STA	#SIZE		
491	C3B0 85 EB			LDA	MULIND		
492	C3B2 A2 03			STX	#SIZE*2-1		
493	C3B4 86 EC			LDA	ACCU,X		
494	C3B6 A2 05			LDA	DACCU,X		
495	C3B8 85 DD		MOVDIV	STA	#0		
496	C3BA 95 E3			LDA	ACCU,X		
497	C3BC A9 00			STA			
498	C3BE 95 CC			DEX			
499	C3C0 CA			BPL	MOVCI		
500	C3C1 10 F5			LDA	#SIZE-1		
501	C3C3 A0 02		DIVLUP	LDA	MULIND		
502	C3C5 A6 EC			LDA	DACCU+SIZE-1,X		
503	C3C7 85 E5		TESWER	LDA			
Datum ingang:						Ref.:	
MARCH 04, 1977						SIEP DE VRIES	
Vervangt:							
NEW.							
d.d.:							
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POCKET CALCULATOR PROGRAM						Nummer:	PC001
INTEGER PACKAGE 'INTCAL'						Blad:	17 OF 17
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CARC #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
504	03C9	D1 E9		CMP	(LOADAC),Y		
505	03CB	90 29		BCC	FINDEV		
506	03CD	85 E5		LCA	CACCL+SIZE-1,X		
507	03CF	F0 21		BEQ	NCCOMP		
508	03D1	A6 EC		LCX	MULIND		
509	03D3	A0 CC		LCY	#0		
510	03D5	A9 03		LCA	#SIZE		
511	03D7	85 ED		STA	MULCNT		
512	03D9	F8		SED			
513	03DA	85 E3		LCA	DACCU,X		
514	03DC	F1 E9	DIVRE	SBC	(LOADAC),Y		
515	03DE	95 E3		STA	DACCU,X		
516	03E0	E8		INX			
517	03E1	C8		INX			
518	03E2	C6 ED		DEC	MULCNT		
519	03E4	DC F4		BNE	DIVRE		
520	03E6	B5 CA		LCA	ACCU-SIZE,X		
521	03E8	C9 99		CMP	#f99		
522	03EA	B0 A4		BCS	ULGO		
523	03EC	69 01		ACC	#1		
524	03EE	55 CA		STA	ACCU-SIZE,X		
525	03F0	D0 C1		BNE	DIVLUP		
526	03F2	CA	NCCOMP	DEX			
527	03F3	88		DEY			
528	03F4	10 C1		BPL	TESWER		
529	03F6	C6 EC	FINDIV	DEC	MULIND		
530	03F8	10 C9		BPL	DIVLUP		
531	03FA	4C 5C 03		JMP	CLICAR		
532			:				
533			.END				
Datum ingang:				Vervangt:		d.d.:	
MARCH 04, 1977				NEW.		-	
						Ref.:	
						SIEP DE VRIES	