

KIM

GEBRUIKERS CLUB NEDERLAND

SOFTWARE

PROGRAM: PC001

POCKET CALCULATOR PROGRAM

BY: SIEP DE VRIES

Classification code: 00.012.320

POCKET CALCULATOR PROGRAM					Number: PC001	
DESCRIPTION					Blad: 1 of 17	
1	CARD #	LOC	OBJECT CODE	LABEL	OPER	OPERAND
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32						

POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN

DATE 04/03/77 - PAGE

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:

* INTAL, PARTNO 770110

A 3-BYTE VERSION IS USED

Datum ingang: MARCH, 04, 1977

Vervangt: NEW.

d.d.: 1

Ref.: SIEP DE VRIES

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POCKET CALCULATOR PROGRAM						Number: PC001	
DEFINITIONS						Blad: 2 OF 17	
CARC #	LOC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
33						*****	2
34			*			*****	
35			* * *			*****	
36			*			*****	
37			*			*****	
38			*			*****	
39			*			*****	
40			*			*****	
41	17FE		INITRP=f17FE			*****	
42	17FA		NMITRP=f17FA			*****	
43						*****	
44						*****	
45						*****	
46						*****	
47						*****	
48			*			*****	
49			* * *			*****	
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			*****	

POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIJNEN
DATE 04/03/77 - PAGE 2

POCKET CALCULATOR PROGRAM

Datum ingang:
MARCH 04, 1977

Vervangt:
NEW.

d.d.:
-

Ref.:
SIEP DE VRIES

GEBRUIKERS CLUB NEDERLAND

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[illegible]

POCKET CALCULATOR PROGRAM					Number: PC001	
DEFINITIONS (CONT'D)					Blad: 4 of 17	
4	DATE 04/03/77 - PAGE					
CARD #	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			
				PIA TO TEST	TTY/KIM	

Datum ingang:

MARCH 04, 1977

Vervangt:

NEW.

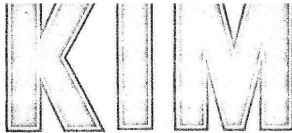
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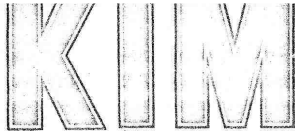
POCKET CALCULATOR PROGRAM						Nummer:	PC001
MAIN LINE						Blad:	6 OF 17
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
136	0000	4C 1E 00	*=0 BEGIN	JMP	CALCUL		6
137			*=PREV+1				
139			;				
140	001E	D8	---	CLD		INITIALIZE	
141	001F	78	CALCUL	SEI			
142	0020	A9 C0		LDA			
143	0022	8D FE 17		STA	#0		
144	0025	8D FA 17		STA	INTRP		
145	0028	A9 1C		STA	NMITRP		
146	002A	8D FF 17		LDA	#f1C		
147	002C	8D FB 17		STA	INTRP+1		
148	0030	A0 00		STA	NMITRP+1		
149	0032	A2 03		LDX	#0		
150	0034	20 13 03		JSR	#NULL	RESULT AND	
151	0037	A2 09		LDX	LOAD	MEMORY ARE BOTH	
152	0039	20 27 03		JSR	#MEMORY	ZERO	
153	003C	20 00 02		JSR	STORE		
154	003F	A2 F9	GETINP	LDX	INPUT	READ NUMBER + FUNCTION	
155	0041	A0 00	WEDER	LDY	#DATA	ADDRESS OF	
156	0043	C9 28		CMP	#0	OPERAND	
157	0045	D0 C5		BNE	#PLUS		
158	0047	20 35 03	;	JSR	NOADD		
159	004A	80 42		BCS	ADD	ADD OPERAND	
160	004C	C9 20	NOADD	CMP	PROBLM	CARRY SET IN ERROR	
161	004E	DC 05		BNE	#MIN		
162	0050	20 47 03	;	JSR	NOMIN		
163	0053	BC 39		BCS	SUB	SUBTRACT OPERAND	
164	0055	C9 2A	NOMIN	CMP	PROBLM	CARRY CLEAR IS ERROR	
165	0057	DC 05		BNE	#MAAL		
166	0059	20 5F 03	;	JSR	NOMAAL		
167	005C	80 30		BCS	MPY	MULTIPLY OPERAND	
168	005E	C9 2F	NOMAAL	CMP	PROBLM	CARRY SET IS ERROR	
169	0060	D0 C5		BNE	#DEEL		
170	0062	20 AC 03	;	JSR	NODEEL		
171					DVI	DIVIDE BY OPERAND	
172							
173							
174							

Datum ingang: MARCH 04, 1977

Vervangt: New.

d.d.: 1

Ref.: SIEP DE VRIES



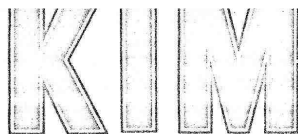
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POCKET CALCULATOR PROGRAM										Number: PC001	
MAIN LINE (CONT'D).										Blad: 7 OF 17	
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN										DATE 04/03/77 - PAGE 7	
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS					
175	0065	80 27		BCS	PROBLM						
176	0067	C9 41	NODEEL	CMP	#CLRALL	CARRY CLEAR IS ERROR					
177	0069	D0 05		BNE	NGCLER						
178	0068	A2 03	CLEAR	LDX	#NULL						
179	006D	20 13 03		JSR	LOAD	JUST LOAD ZERO					
180	007C	C9 25	NGCLER	CMP	#PRCNT						
181	0072	D0 CC		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	007B	20 AC 03		JSR	DVI	DIVIDE BY					
188	007E	B0 0E		BCS	PROBLM	ONE HUNDRED					
189			:								
190	0080	C9 52	NOPER	CMP	#REP						
191	0082	D0 05		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						

Datum ingang:	Vervangt:	d.d.:	Ref.:
MARCH 04, 1977	New.	-	SIEP DE VRIES

POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN					Number: PC001	
I/O SUBROUTINES					Blad: 8 of 17	
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS
198			;			*****
199			;			*****
200			;	*	SUBROUTINE TO INPUT	*****
201			;	*	DATA + FUNCTION	*****
202			;	*		*****
203			;	*		*****
204			;	*	THE RESULT IS SHOWN,	*****
205			;	*	A NEW NUMBER CAN BE KEYED IN	*****
206			;	*	FOLLOWED BY A NON-NUMERICAL	*****
207			;	*	KEY, WHICH CAUSES A RETURN	*****
208			;	*		*****
209			;	*	CLEAR INPUT, STORE IN MEMORY	*****
210			;	*	AND GET FROM MEMORY ARE	*****
211			;	*	PROCESSED IN THIS SUBROUTINE	*****
212			;	*		*****
213			;	*		*****
214			;	*		*****
215			;	*		*****
216			;	*		*****
217	0200	A2 F9	INPUT	LDX	#DATA	PERFORM OUTPUT
218	0202	A0 00		LCY	#0	FIRST
219	0204	20 27 03		JSR	STORE	
220	0207	20 A7 02	WERONP	JSR	OUTPUT	
221	020A	A9 00		LCA	#0	CLEAR DIGIT-
222	020C	85 1C		STA	NUMCAR	COUNTER
223	020E	20 71 02	WERINP	JSR	INCHAR	READ NEXT CHARACTER
224	0211	C9 43		CMP	#CLRNUM	CLEAR NUMBER
225	0213	F0 E8		BEQ	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	MEMRY	DISPLAY NUMBER
230	021C	A5 FA		LDA	DATA+1	
231	021F	85 0A		STA	MEMRY+1	
232	0221	A5 FB		LCA	DATA+2	
233	0223	85 0B		STA	MEMRY+2	
234	0225	4C 07 02		JSR	WERONP	
235	0228	C9 4F	NOVEMI	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
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
237	022C	A5 09		LDA	MEMRY	DISPLAY IT	9
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	LEAVE CHARACTER UNKNOWN	
242	0236	85 FB		STA	DATA+2		
243	0238	4C 07 02		JMP	WERGNP		
244	023B	C9 30	TESDEC	CMP	#f30		
245	023D	10 01		BPL	GODEC	IT'S DECIMAL	
246	023F	60	NODEC	RTS			
247	024C	C9 3A	GODEC	CMP	#f3A		
248	0242	10 F8		BPL	NODEC		
249	0244	A6 1C		LDX	NUMCAR	FIRST DIGIT CLEARS NUMBER	
250	0246	D0 C8		BNE	NOTFRS		
251	0248	A0 00		LDY	#0		
252	024A	84 F9		STY	DATA		
253	024C	84 FA		STY	DATA+1	OBTAIN VALUE DIGIT LEFT POSITIONED IN ACC	
254	024E	84 FB		STY	DATA+2		
255	0250	38	NOTFRS	SEC			
256	0251	E9 30		SBC	#f30		
257	0253	2A		RCL		SHIFT DIGIT IN	
258	0254	2A		RCL			
259	0255	2A		RCL			
260	0256	2A		RCL			
261	0257	A2 04		LCX	#4	TEST IF TOO MANY DIGITS	
262	0259	2A	RCLWER	RCL	DATA		
263	025A	26 F9		RCL	DATA+1		
264	025C	26 FA		RCL	DATA+2		
265	025E	26 FB		RCL			
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		
271	0269	30 A3		BMI	WERINP		
272	026B	20 BD 02		JSR	ERROR		
273	026F	4C CC 02		JMP	INPUT		
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN						DATE 04/03/77 - PAGE	9
Datum ingang:		Vervangt:		d.d.:		Ref.:	
MARCH 04, 1977		NEW.		-		SIEP DE VRIES	



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POCKET CALCULATOR PROGRAM						Number:	PC001
I/O SUBROUTINES (CONT'D)			READ FROM KIM OR TTY			Blad:	10 OF 17
POCKET CALCULATOR PROGRAM - SIEP DE VRIES - LIMMEN							
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
274						*****	
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GEBRUIKERS CLUB NEDERLAND

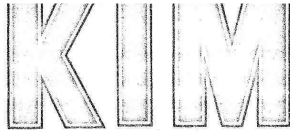
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POCKET CALCULATOR PROGRAM					Number:	PC001
INTEGER PACKAGE 'INTCAL'			DESCRIPTION + DEFINITIONS		Blad:	13 OF 17
INTEGER PACKAGE 'INTCAL' - COPYRIGHT WESTVRIES	DATE 04/03/77 - PAGE	13				
CARC #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS
246			*****			*****
247			*****			*****
248			*****			*****
249			*****			*****
250			*****			*****
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274			*****			*****
275	0003		SIZE=3			*****
276			*=fE9-4fSIZE			*****
277	00DD		ACCU=*			*****
278	00E3		DACCU=ACCU*2*SIZE			*****
279			*=fE9			*****
280	00E9		LOADAD=DACCU*2*SIZE			*****
281	00EB		ACCSAV=LOADAD*2			*****
282	00EC		MULIND=ACCSAV+1			*****
283	00ED		MULCNT=MULIND+1			*****
284	00EE		COUNT=MULCNT+1			*****

Datum ingang:

MARCH 04, 1977

Vervangt:

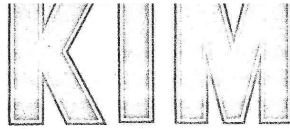
NEW.

d.d.:

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Ref.:

SIEP DE VRIES



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POCKET CALCULATOR PROGRAM						Nummer:	PC001
INTEGER PACKAGE 'INTCAL'						Blad:	14 OF 17
DATE 04/03/77 - PAGE 14							
CARE #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
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421			*****			*****	
422			*****			*****	
423			*****			*****	
385	030C	86	E9	STX	LOADAD	GENERAL SETUP AND	
386	0302	84	EA	STY	LOADAD+1	INITIALIZE	
387	0304	85	EB	STA	ACCSAV		
388	0306	A2	02	LDC	#SIZE-1		
389	0308	A0	0C	LDC	#0		
390	030A	94	E0	STY	ACCU+SIZE,X		
391	030C	CA		DEX			
392	030C	10	FB	BPL	CLRWER		
393	030F	A2	02	LDC	#SIZE-1		
394	0311	F8		SED			
395	0312	60		RTS			
396	0313	20	00 03	JSR	BEGALG	LOAD INTO	
397	0316	B1	E5	LCA	{LOADAD},Y	ACCU	
398	0318	99	DD 00	STA	ACCU,Y		
399	031B	C8		INY			
400	031C	CA		DEX			
401	031C	10	F7	BPL	NLOAD	GENERAL EXIT	
402	031F	D8		CLD		RESTORE REGISTERS	
403	0320	A6	E9	LDC	LOADAD		
404	0322	A4	EA	LDC	LOADAD+1		
405	0324	A5	EB	LCA	ACCSAV		
406	0326	60		RTS			
407	0327	20	00 03	JSR	BEGALG	STORE FROM	
408	032A	B9	DD 00	LCA	ACCU,Y	ACCU	
409	032C	91	E9	STA	{LOADAD},Y		
410	032F	C8		INY			
411	033C	CA		DEX			
412	0331	10	F7	BPL	NSTOR		

Datum ingang:

MARCH 04, 1977

Vervangt:

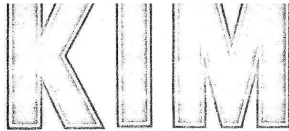
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POCKET CALCULATOR PROGRAM										Number:
INTEGER PACKAGE 'INTCAL'										Blad:
										PC001
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INTEGER PACKAGE 'INTCAL' - COPYRIGHT WESTVRIES										
CARD #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS				
424	0333	30 EA		BMI	ALGOUT					
425	0335	20 00 03	ADD	JSR	BEGALG	ADD INTG				
426	0338	18		CLC		ACCU				
427	0339	89 CC 00	NADD	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	NADD					
433	0345	30 D8		BMI	ALGOUT					
434	0347	20 CC 03	SUB	JSR	BEGALG	SUBTRACT FROM				
435	034A	38		SEC		ACCU				
436	034B	89 CC 00	NSUB	LCA	ACCU,Y					
437	034E	F1 E9		SBC	(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	8C 03		BCS	CLICAR					
443	0359	38	SETCAR	SEC						
444	035A	80 C3		BCS						
445	035C	18	CLICAR	CLC	ALGOUT					
446	035D	90 C0		BCC	ALGOUT					
447	035F	86 E9	MPY	STX	LOADAD					
448	0361	84 EA		STY	LOADAD+1					
449	0363	85 E8		STA	SAVACC					
450	0365	A2 C6		LDX	#SIZE*2					
451	0367	85 CC	WIMPY	LCA	ACCU-1,X					
452	0369	95 E2		STA	DACCU-1,X					
453	036B	A9 CC		LCA	#C					
454	036D	95 CC		STA	ACCU-1,X					
455	036F	CA		DEX	WIMPY					
456	0370	D0 F5		BNE						
457	0372	A8		JAY						
458	0373	A9 03		LCA	#SIZE					
459	0375	85 ED		STA	MULCNT					
460	0377	F8		SED						
461	0378	81 E9	OUTLUP	LCA	(LCADAD),Y					
462	037A	85 EC		STA	MULIND					
463	037C	F0 1C		BEQ	NADC					

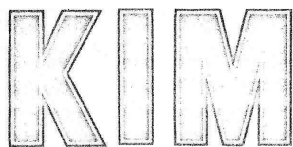
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INTEGER PACKAGE 'INTCAL'						Blad:	16 of 17
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CARC #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS	
464	C37E 18		PEUTER	CLC	#SIZE*2		
465	C37F A9 06			LDA	COUNT		
466	C381 85 EE			STA	#0		
467	C383 A2 00			LDX	ACCU,X		
468	C385 85 DD		WERADD	LCA	DACCU,X		
469	C387 75 E3			ADC	ACCU,X		
470	C379 95 DD			STA	ACCU,X		
471	C38B E8			INX	COUNT		
472	C38C C6 EE			DEC	WERADD		
473	C38E D0 F5			BNE	ALGOUT		
474	C39C B0 8C		ULGO	BCS	MULIND		
475	C392 A5 EC			LDA	#0		
476	C394 E9 CC			SPC	MULIND		
477	C396 85 EC			STA	PEUTER		
478	C398 D0 E4			BNE	#SIZE*2-1		
479	C39A A2 05		NCADD	LDX	DACCU-1,X		
480	C39C B5 E2		WUSTUR	LDA	DACCU,X		
481	C39E 95 E3			STA			
482	C3A0 CA			DEX			
483	C3A1 D0 F9			BNE	WUSTUR		
484	C3A3 86 E3			STX	DACCU		
485	C3A5 C8			INX			
486	C3A6 C6 ED			DEC	MULCNT		
487	C3A8 D0 CE			BNE	OUTLUP		
488	C3AA FC B0		PULGO	BEQ	CLICAR		
489	C3AC 86 E9		DVI	STX	LOADAD+1		
490	C3AE 84 EA			STY	ACCSAV		
491	C3B0 85 E8			STA	#SIZE		
492	C3B2 A2 03			LDX	MULIND		
493	C3B4 86 EC			STX	#SIZE*2-1		
494	C3B6 A2 05			LDX	ACCU,X		
495	C3B8 B5 DD		MOVDIV	LCA	DACCU,X		
496	C3BA 95 E3			STA	#0		
497	C3BC A9 00			LDA	ACCU,X		
498	C3BE 95 DD			STA			
499	C3C0 CA			DEX	MOVDIV		
500	C3C1 10 F5			BPL	#SIZE-1		
501	C3C3 AC 02		DIVLUP	LDY	MULIND		
502	C3C5 A6 EC			LDX	DACCU+SIZE-1,X		
503	C3C7 B5 E5		TESWER	LDA			
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POCKET CALCULATOR PROGRAM										Nummer: PC001	
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CARC #	LCC	OBJECT CODE	LABEL	OPER	OPERAND	COMMENTS					
504	03C9	D1 E9		CMP	(LOADAC),Y						
505	03C8	90 29		BCC	FINDEV						
506	03C8	B5 E5		LCA	CACCL+SIZE-1,X						
507	03CF	F0 21		BEQ	NOCOMP						
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	03CA	85 E3		LCA	DACCU,X						
514	03CC	F1 E9	DIVRE	SBC	(LOADAC),Y						
515	03DE	95 E3		STA	DACCU,X						
516	03EC	E8		INX							
517	03E1	C8		INX							
518	03E2	C6 ED		DEC	MULCNT						
519	03E4	CC 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	95 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								

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