

```

1      * Sample mc codes to monitor times
2      * when context switches occur
3      * both for swapping out and swapping in contexts
4      * from Peersoft MT kernel
5      K6502      =      0
6      K65C02     =      1
7
8      KOPT      =      K6502
9
10
11             DO      KOPT-K6502
12             XC
13             FIN
14
15             DO      0
16
17      MPHX      MAC
18             DO      KOPT-K6502
19             PHX
20             ELSE
21             TXA
22             PHA
23             FIN
24             <<<
25      MPHY      MAC
26             DO      KOPT-K6502
27             PHY
28             ELSE
29             TYA
30             PHA
31             FIN
32             <<<
33      MPLX      MAC
34             DO      KOPT-K6502
35             PLX
36             ELSE
37             PLA
38             TAX
39             <<<
40      MPLY      MAC
41             DO      KOPT-K6502
42             PLY
43             ELSE
44             PLA
45             TAY
46             FIN
47             <<<
48      STID      MAC
49             LDA      #]1
50             STA      ]2
51             LDA      #>]1
52             STA      ]2+1
53             <<<
54      GOTO      MAC
55             DO      KOPT-K6502
56             BRA      ]1
57             ELSE
58             JMP      ]1
59             FIN
60             <<<

```

	60		
	61	FIN	
	62		
	63	WAITKBD	EQU 795
	64	BUFKBD	EQU WAITKBD+1
	65		
	66	PHM	EQU \$7D2B Peersoft HIMEM once MAXFILES 1
	67	PCL	EQU \$3A
	68	A1L	EQU \$3C
	69	A2L	EQU \$3E
	70	A4L	EQU \$42
	71	MOVE	EQU \$FE2C
	72		
	73	INSDS2	EQU \$F88C
	74	PCADJ	EQU \$F953
	75	LENGTH	EQU \$2F
	76		
	77	CH	EQU 36
	78	CV	EQU 37
	79		
	80	HIMEM	EQU \$73
	81	FRETOP	EQU \$6F
	82	ERRFLG	EQU \$D8
	83		
	84	ORG	\$4000
	85		
4000:	A9 2B	86 SUITE	LDA #PHM
4002:	38	87	SEC
4003:	E5 73	88	SBC HIMEM
4005:	8D 40 40	89	STA :0+1
4008:	A9 7D	90	LDA #>PHM
400A:	E5 74	91	SBC HIMEM+1
400C:	8D 48 40	92	STA :1+1
		93	
400F:	A9 9B	94	LDA #AROMBA
4011:	A0 40	95	LDY #>AROMBA
4013:	85 3A	96]LOOP	STA PCL
4015:	C9 DC	97	CMP #FCODE-FNDVAR2+AROMBA
4017:	98	98	TYA
4018:	E9 42	99	SBC #>FCODE-FNDVAR2+AROMBA
401A:	B0 35	100	BCS :4
401C:	84 3B	101	STY PCL+1
		102	DO KOPT-K65C02
401E:	A2 00	103	LDX #0
4020:	20 8C F8	104	JSR MINSDS2
4023:	A4 2F	105	LDY LENGTH
4025:	C0 02	106	CPY #2
4027:	D0 22	107	BNE :3
4029:	B1 3A	108	LDA (PCL),Y
402B:	AA	109	TAX
402C:	88	110	DEY
402D:	B1 3A	111	LDA (PCL),Y
402F:	A8	112	TAY
4030:	C9 2B	113	CMP #MFIN Only adresses within range
4032:	8A	114	TXA
4033:	E9 7D	115	SBC #>MFIN
4035:	B0 14	116	BCS :3 Must be < FIN to be relocated

4037:	C0	DA	117		CPY	#FNDVAR2
4039:	8A		118		TXA	
403A:	E9	7A	119		SBC	#>FNDVAR2 and >= FNDVAR2
403C:	90	0D	120		BCC	:3
403E:	98		121		TYA	;Relocates address
403F:	E9	00	122	:0	SBC	#0
4041:	A0	01	123		LDY	#1
4043:	91	3A	124		STA	(PCL),Y Low byte
4045:	C8		125		INY	
4046:	8A		126		TXA	
4047:	E9	00	127	:1	SBC	#0
4049:	91	3A	128		STA	(PCL),Y
404B:	20	53	F9	:3	JSR	PCADJ Adjust PCL to length byte
			130		GOTO	JLOOP
			130		DO	KOPT-K6502
			130		BRA	J1
			130		ELSE	
404E:	4C	13	40		JMP	JLOOP
			130		FIN	
			130		<<<	
			131			
4051:	AD	77	41	:4	LDA	KILLED+1+AROMBA-FNDVAR2
4054:	38		133		SEC	
4055:	ED	40	40		SBC	:0+1
4058:	8D	77	41		STA	KILLED+1+AROMBA-FNDVAR2
405B:	AD	79	41		LDA	KILLED+3+AROMBA-FNDVAR2
405E:	ED	48	40		SBC	:1+1
4061:	8D	79	41		STA	KILLED+3+AROMBA-FNDVAR2
			139			
4064:	A9	DA	140		LDA	#FNDVAR2
4066:	A2	7A	141		LDX	#>FNDVAR2
4068:	38		142		SEC	
4069:	ED	40	40		SBC	:0+1
406C:	85	42	144		STA	A4L
406E:	8A		145		TXA	
406F:	ED	48	40		SBC	:1+1
4072:	85	43	147		STA	A4L+1
			148			
			149		STID	AROMBA;A1L
4074:	A9	9B	149		LDA	#AROMBA
4076:	85	3C	149		STA	A1L
4078:	A9	40	149		LDA	#>AROMBA
407A:	85	3D	149		STA	A1L+1
			149		<<<	
			150		STID	MFIN-1+AROMBA-FNDVAR2;A2L
407C:	A9	EB	150		LDA	#MFIN-1+AROMBA-FNDVAR2
407E:	85	3E	150		STA	A2L
4080:	A9	42	150		LDA	#>MFIN-1+AROMBA-FNDVAR2
4082:	85	3F	150		STA	A2L+1
			150		<<<	
4084:	A0	00	151		LDY	#0
4086:	20	2C	FE		JSR	MOVE
4089:	A5	73	153		LDA	HIMEM
408B:	38		154		SEC	
408C:	E9	51	155		SBC	#MFIN-FNDVAR2
408E:	85	73	156		STA	HIMEM
4090:	85	6F	157		STA	FRETOP

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4092: A5 74      158      LDA      HIMEM+1
4094: E9 02      159      SBC      #>MFIN-FNDVAR2
4096: 85 74      160      STA      HIMEM+1
4098: 85 70      161      STA      FRETOP+1
409A: 60         162      RTS
                163
                164      DO      KOPT-K6502
                165  MINSDDS2  LDA      (PCL)
                166      LDX      #LN-MC-1
                167  ]LOOP    CMP      MC,X
                168      BEQ      :0
                169      DEX
                170      BPL      ]LOOP
                171      INX                      ;X set to zero
                172      JMP      INSDS2
                173  :0      LDA      LN,X
                174      STA      LENGTH
                175      RTS
                176
                177  MC      HEX      DAFA041A3A  PHX/PLX/TSB d/INC/DEC
                178      HEX      7C807A5A      JMP (a,X)/BRA d/PLY/PHY
                179      HEX      649E          STZ d/STZ a,X
                180      HEX      0C9C          TSB a/STZ a
                181      HEX      1C14          TRB a/TRB d
                182      HEX      B2           LDA (d)
                183
                184  LN      HEX      0000010000  PHX/PLX/TSB d/INC/DEC
                185      HEX      02010000      JMP (a,X)/BRA d/PLY/PHY
                186      HEX      0102          STZ d/STZ a,X
                187      HEX      0202          TSB a/STZ a
                188      HEX      0201          TRB a/TRB d
                189      HEX      01           LDA (d)
                190      ELSE
                191  MINSDDS2  EQU      INSDS2
                192      FIN
                193
                194      DO      KOPT-K6502
                195  AROMBA    ORG      $7CCC
                196      ELSE
                197  AROMBA    ORG      $7ADA
                198      FIN
                199  FNDVAR2
7ADA: A2 1A      200      LDX      #9*3-1
7ADC: BD E6 7A  201  ]LOOP    LDA      ZON,X
7ADF: 9D 00 03  202      STA      $0300,X
7AE2: CA        203      DEX
7AE3: 10 F7      204      BPL      ]LOOP
7AE5: 60         205      RTS
                206  ZON      ORG      $0300
                207  * To generate a click onto speaker
0300: 4C 27 7B  208      JMP      L0          CALL 768
                209  * To display an error message
0303: 4C 2B 7B  210      JMP      L1          CALL 771
                211  * To generate another click onto speaker
0306: 4C 23 7B  212      JMP      L2          CALL 774
                213  * To display current status for given subroutine
0309: 4C 53 7B  214      JMP      L3          CALL 777

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215 * Routine determining of a coroutine
216 * waiting for keyboard should be awoken or not.
030C: 4C C9 7B 217 JMP L4 CALL 780
218 * To effectively read keyboard
030F: 4C 01 7B 219 JMP L5 CALL 783
220 * Compute address of XC% variable as well as
221 * IT% variable and XH, XV arrays
0312: 4C 7B 7C 222 JMP L6 CALL 786
223 * To store cursor cursor position settings from XH
224 * and XV arrays
0315: 4C 34 7C 225 JMP L7 CALL 789
226 * To restore cursor position settings from XH and
227 * XV arrays
0318: 4C 00 7C 228 JMP L8 CALL 792
229 ORG
230
231 * Read the keyboard from coroutine
7B01: A9 FF 232 L5 LDA #$FF
7B03: 8D 1B 03 233 STA WAITKBD
7B06: AD 00 C0 234 LDA $C000
7B09: 30 07 235 BMI :0
7B0B: 20 06 7D 236 JSR ISXC1
7B0E: D0 09 237 BNE :1
7B10: A9 83 238 LDA #$83
7B12: 8D 1C 03 239 :0 STA BUFKBD
7B15: EE 1B 03 240 INC WAITKBD
7B18: 60 241 RTS
7B19: A2 01 242 :1 LDX #1
7B1B: 8E DB 9C 243 STX 40155
7B1E: CA 244 DEX
7B1F: 8E 1C 03 245 STX BUFKBD
7B22: 60 246 RTS
247
7B23: 8D 36 C0 248 L2 STA $C036
7B26: 60 249 RTS
7B27: 2C 36 C0 250 L0 BIT $C036
7B2A: 60 251 RTS
252
253 ERRNUM EQU $DE
254 ERRLIN EQU $DA
255 CRDO EQU $DAFB Print a carriage return
256 OUTQUES EQU $DB5A Print a question mark
257 OUTDO EQU $DB5C Print a character
258 ERRMESS EQU $D260 Error messages to be printed
259 QTERR EQU $D350 Print a quote
260 STROUT EQU $DB3A Print constant string at [Y,A]
261 INPRT EQU $ED19 Print " IN [Y,A]"
262
7B2B: 20 FB DA 263 L1 JSR CRDO
7B2E: 20 5A DB 264 JSR OUTQUES
7B31: A6 DE 265 LDX ERRNUM Error # is in fact an offset...
7B33: BD 60 D2 266 ]LOOP LDA ERRMESS,X
7B36: 48 267 PHA
7B37: 20 5C DB 268 JSR OUTDO
7B3A: E8 269 INX
7B3B: 68 270 PLA
7B3C: 10 F5 271 BPL ]LOOP

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7B3E:	A9	50	272	LDA	#QTERR	
7B40:	A0	D3	273	LDY	#>QTERR	
7B42:	20	3A DB	274	JSR	STROUT	
7B45:	A5	DA	275	LDA	ERRLIN	
7B47:	A4	DB	276	LDY	ERRLIN+1	
7B49:	20	19 ED	277	JSR	INPRT	
			278	DO	KOPT-K6502	
			279	STZ	ERRFLG	
			280	ELSE		
7B4C:	A9	00	281	LDA	#0	
7B4E:	85	D8	282	STA	ERRFLG	
			283	FIN		
7B50:	4C	FB DA	284	JMP	CRDO	
			285			
			286	ARYTAB	EQU	\$6B
			287	LOWTR	EQU	\$9B
			288	AUXPTR	EQU	6
			289	FRMNUM	EQU	\$DD67
			290	CHKCOM	EQU	\$DEBE
			291	COMBYTE	EQU	\$E74C
			292	GETADR	EQU	\$E752
			293	ADADR	EQU	\$9CD8
			294	OUTSPC	EQU	\$DB57
			295	LINPRT	EQU	\$ED24
			296	LINNUM	EQU	\$50
			297	PRTEOL	EQU	\$FC9C
			298			
			299	* CALL 777,Offset,JT		
7B53:	20	BE DE	300	L3 JSR	CHKCOM	Check for a comma
7B56:	20	67 DD	301	JSR	FRMNUM	
7B59:	20	52 E7	302	JSR	GETADR	
7B5C:	A5	51	303	LDA	LINNUM+1	Save offset to stack
7B5E:	48		304	PHA		
7B5F:	A5	50	305	LDA	LINNUM	
7B61:	48		306	PHA		
7B62:	20	4C E7	307	JSR	COMBYTE	
7B65:	8E	2A 7D	308	STX	XSAV	
7B68:	68		309	PLA		
7B69:	18		310	CLC		
7B6A:	65	6B	311	ADC	ARYTAB	
7B6C:	85	9B	312	STA	LOWTR	Array base absolute address
7B6E:	68		313	PLA		; into LOWTR
7B6F:	AA		314	TAX		;Offset hi byte in X register
7B70:	65	6C	315	ADC	ARYTAB+1	
7B72:	85	9C	316	STA	LOWTR+1	
7B74:	AD	D8 9C	317	LDA	ADADR	
7B77:	85	06	318	STA	AUXPTR	
7B79:	AD	D9 9C	319	LDA	ADADR+1	
7B7C:	85	07	320	STA	AUXPTR+1	
7B7E:	A0	10	321	LDY	#8+8	INDX from Peersoft program area
7B80:	B1	06	322	LDA	(AUXPTR),Y	
7B82:	A8		323	TAY		
7B83:	E8		324	INX		;Comparison with 255
7B84:	F0	2F	325	BEQ	KILLED	;Killed co routine
7B86:	A9	20	326	LDA	#` `	
7B88:	CC	2A 7D	327	CPY	XSAV	Are they the same?
7B8B:	D0	02	328	BNE	:0	

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7B8D: A9 2A      329      LDA      #'^*'
7B8F: 20 5C DB 330      :0      JSR      OUTDO
7B92: 20 57 DB 331      JSR      OUTSPC
7B95: A0 11      332      LDY      #8+8+1
7B97: B1 06      333      LDA      (AUXPTR),Y
7B99: 38          334      SEC
7B9A: A0 08      335      LDY      #8
7B9C: F1 9B      336      SBC      (LOWTR),Y
7B9E: AA          337      TAX
7B9F: A9 00      338      LDA      #0
7BA1: 20 24 ED 339      JSR      LINPRT
7BA4: 20 57 DB 340      JSR      OUTSPC
7BA7: A0 09      341      LDY      #9
7BA9: B1 9B      342      LDA      (LOWTR),Y
7BAB: AA          343      TAX
7BAC: C8          344      INY
7BAD: B1 9B      345      LDA      (LOWTR),Y
7BAF: 20 24 ED 346      JSR      LINPRT
7BB2: 4C 9C FC 347      FIN      JMP      PRTEOL
      348
7BB5: A9 1B      349      KILLED LDA      #KILLDMSG
7BB7: A0 7D      350      LDY      #>KILLDMSG
7BB9: 85 06      351      STA      AUXPTR
7BBB: 84 07      352      STY      AUXPTR+1
7BBD: A0 00      353      LDY      #0
7BBF: B1 06      354      ]LOOP  LDA      (AUXPTR),Y
7BC1: F0 EF      355      BEQ      FIN
7BC3: 20 5C DB 356      JSR      OUTDO
7BC6: C8          357      INY
7BC7: D0 F6      358      BNE      ]LOOP      Always
      359
      360      * SWPIO routine pour la rentree de la routine
      361      * interrogeant le clavier (carry clear upon
      362      * entry).
      363      * Les registres X et Y doivent etre sauvegardes
7BC9: 2C 1B 03 364      L4      BIT      WAITKBD      Sommes nous en attente?
7BCC: 10 31      365      BPL      :00      Non, retour avec carry clear
7BCE: 2C 00 C0 366      BIT      $C000      Something from keyboard to read?
7BD1: 30 2C      367      BMI      :00      yes: exit with carry clear
      368      * Nothing on keyboard and in the waiting state so ask
      369      * ourselves: are we the last coroutine to be alive?
      370      MPHY
      370      DO      KOPT-K6502
      370      PHY
      370      ELSE
7BD3: 98          370      TYA
7BD4: 48          370      PHA
      370      FIN
      370      <<<
7BD5: 20 06 7D 371      JSR      ISXC1
7BD8: F0 23      372      BEQ      :11
      373      MPHX
      373      DO      KOPT-K6502
      373      PHX
      373      ELSE
7BDA: 8A          373      TXA
7BDB: 48          373      PHA

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		373	FIN	
		373	<<<	
7BDC:	AD D8 9C	374	LDA	ADADR
7BDF:	85 3C	375	STA	A1L
7BE1:	AD D9 9C	376	LDA	ADADR+1
7BE4:	85 3D	377	STA	A1L+1
7BE6:	A0 08	378	LDY	#8
7BE8:	A2 00	379	LDX	#0
7BEA:	B1 3C	380	LDA	(A1L),Y
7BEC:	C9 FF	381	CMP	#\$FF
7BEE:	F0 05	382	BEQ	:0
7BF0:	E8	383	INX	
7BF1:	E0 02	384	CPX	#2
7BF3:	B0 06	385	BCS	:1
7BF5:	C8	386	INY	
7BF6:	C0 10	387	CPY	#16
7BF8:	90 F0	388	BCC]LOOP
7BFA:	18	389	CLC	
		390	MPLX	
		390	DO	KOPT-K6502
		390	PLX	
		390	ELSE	
7BFB:	68	390	PLA	
7BFC:	AA	390	TAX	
		390	<<<	
		391	MPLY	
		391	DO	KOPT-K6502
		391	PLY	
		391	ELSE	
7BFD:	68	391	PLA	
7BFE:	A8	391	TAY	
		391	FIN	
		391	<<<	
7BFF:	60	392	RTS	
		393		
		394	* Restore cursor setting from XH and XV arrays	
		395	MONVTAB	EQU \$FB5B
7C00:	20 69 7C	396	L8	JSR GETYOFF
		397	MPHY	
		397	DO	KOPT-K6502
		397	PHY	
		397	ELSE	
7C03:	98	397	TYA	
7C04:	48	397	PHA	
		397	FIN	
		397	<<<	
7C05:	AD 24 7D	398	LDA	ADXV
7C08:	AE 25 7D	399	LDX	ADXV+1
7C0B:	20 24 7C	400	JSR	:0
7C0E:	20 5B FB	401	JSR	MONVTAB
		402	MPLY	
		402	DO	KOPT-K6502
		402	PLY	
		402	ELSE	
7C11:	68	402	PLA	
7C12:	A8	402	TAY	
		402	FIN	

			402		<<<	
7C13:	AD	22	7D	403	LDA	ADXH
7C16:	AE	23	7D	404	LDX	ADXH+1
7C19:	20	24	7C	405	JSR	:0
7C1C:	85	24		406	STA	CH
7C1E:	A9	80		407	LDA	#128
7C20:	8D	DA	9C	408	STA	40154
7C23:	60			409	RTS	
			410			
7C24:	18			411	:0	CLC
7C25:	65	6B		412	ADC	ARYTAB
7C27:	85	3C		413	STA	A1L
7C29:	8A			414	TXA	
7C2A:	65	6C		415	ADC	ARYTAB+1
7C2C:	85	3D		416	STA	A1L+1
7C2E:	B1	3C		417	LDA	(A1L),Y
			418	DO	KOPT-K6502	
			419	DEC		
			420	ELSE		
7C30:	38			421	SEC	
7C31:	E9	01		422	SBC	#1
			423	FIN		
7C33:	60			424	RTS	
			425	* Store cursor position into XH and XV arrays		
7C34:	20	69	7C	426	L7	JSR GETYOFF
7C37:	A6	24		427	LDX	CH
7C39:	AD	22	7D	428	LDA	ADXH
7C3C:	65	6B		429	ADC	ARYTAB
7C3E:	85	3C		430	STA	A1L
7C40:	AD	23	7D	431	LDA	ADXH+1
7C43:	20	60	7C	432	JSR	:0
7C46:	A6	25		433	LDX	CV
7C48:	AD	24	7D	434	LDA	ADXV
7C4B:	18			435	CLC	
7C4C:	65	6B		436	ADC	ARYTAB
7C4E:	85	3C		437	STA	A1L
7C50:	AD	25	7D	438	LDA	ADXV+1
7C53:	20	60	7C	439	JSR	:0
7C56:	A2	01		440	LDX	#1
7C58:	8E	DB	9C	441	STX	40155
7C5B:	CA			442	DEX	
7C5C:	8E	DA	9C	443	STX	40154
7C5F:	60			444	RTS	
			445			
7C60:	65	6C		446	:0	ADC ARYTAB+1
7C62:	85	3D		447	STA	A1L+1
7C64:	E8			448	INX	
7C65:	8A			449	TXA	
7C66:	91	3C		450	STA	(A1L),Y
7C68:	60			451	RTS	
			452			
7C69:	A0	01		453	GETYOFF	LDY #1
7C6B:	AD	28	7D	454	LDA	ADIT
7C6E:	85	3C		455	STA	A1L
7C70:	AD	29	7D	456	LDA	ADIT+1
7C73:	85	3D		457	STA	A1L+1
7C75:	B1	3C		458	LDA	(A1L),Y

7C77: 0A	459	ASL	
7C78: A8	460	TAY	
7C79: C8	461	INY	
7C7A: 60	462	RTS	
	463		
	464	VNPTRG90 EQU	\$9CD3
	465	VNARRG91 EQU	\$9CD1
	466		
	467	DIMFLG EQU	\$10
	468	SUBFLG EQU	\$14
	469	VARNAM EQU	\$81
	470	VALTYP EQU	\$11
	471	INTTYP EQU	\$12
	472	VARPNT EQU	\$83
	473		
7C7B: A9 00	474	L6 LDA	#0
7C7D: A2 D8	475	LDX	"X"
7C7F: A0 C3	476	LDY	"C"
7C81: 20 E2 7C	477	JSR	L60
7C84: A9 02	478	LDA	#2
7C86: A2 C9	479	LDX	"I"
7C88: A0 D4	480	LDY	"T"
7C8A: 20 E2 7C	481	JSR	L60
7C8D: A9 00	482	LDA	#0
7C8F: A2 D8	483	LDX	"X"
7C91: A0 C8	484	LDY	"H"
7C93: 20 A2 7C	485	JSR	L61
7C96: 90 09	486	BCC	:0
7C98: A9 02	487	LDA	#2
7C9A: A2 D8	488	LDX	"X"
7C9C: A0 D6	489	LDY	"V"
7C9E: 20 A2 7C	490	JSR	L61
7CA1: 60	491	:0 RTS	
	492		
7CA2: 48	493	L61 PHA	
	494	DO	KOPT-K6502
	495	STZ	VALTYP
	496	STZ	DIMFLG
	497	ELSE	
7CA3: A9 00	498	LDA	#0
7CA5: 85 11	499	STA	VALTYP
7CA7: 85 10	500	STA	DIMFLG
	501	FIN	
7CA9: A9 40	502	LDA	#\$40
7CAB: 85 14	503	STA	SUBFLG
7CAD: 86 81	504	STX	VARNAM
7CAF: 84 82	505	STY	VARNAM+1
7CB1: A9 82	506	LDA	#\$82
7CB3: 85 12	507	STA	INTTYP
7CB5: 20 DF 7C	508	JSR	:2
7CB8: 68	509	PLA	
7CB9: 90 1F	510	BCC	:0
7CBB: AA	511	TAX	
7CBC: A0 04	512	LDY	#4
7CBE: B1 9B	513	LDA	(LOWTR),Y
7CC0: 49 41	514	EOR	#\$41 16bits and 1 dimension
7CC2: 18	515	CLC	

7CC3:	D0 15	516	BNE	:0	
7CC5:	A5 9B	517	LDA	LOWTR	
7CC7:	69 07	518	ADC	#5+2	C currently clear
7CC9:	A4 9C	519	LDY	LOWTR+1	
7CCB:	90 01	520	BCC	:1	
7CCD:	C8	521	INY		
		522	* Address in Y,A		
7CCE:	38	523	:1	SEC	
7CCF:	E5 6B	524	SBC	ARYTAB	
7CD1:	9D 22 7D	525	STA	ADXH,X	
7CD4:	98	526	TYA		
7CD5:	E5 6C	527	SBC	ARYTAB+1	
7CD7:	9D 23 7D	528	STA	ADXH+1,X	
		529	DO	KOPT-K6502	
		530	:0	STZ	SUBFLG
		531		ELSE	
7CDA:	A9 00	532	:0	LDA	#0
7CDC:	85 14	533		STA	SUBFLG
		534		FIN	
7CDE:	60	535		RTS	
7CDF:	6C D1 9C	536	:2	JMP	(VNARRG91)
		537			
7CE2:	48	538	L60	PHA	
		539		DO	KOPT-K6502
		540		STZ	VALTYP
		541		STZ	DIMFLG
		542		STZ	SUBFLG
		543		ELSE	
7CE3:	A9 00	544		LDA	#0
7CE5:	85 11	545		STA	VALTYP
7CE7:	85 10	546		STA	DIMFLG
7CE9:	85 14	547		STA	SUBFLG
		548		FIN	
7CEB:	86 81	549		STX	VARNAM
7CED:	84 82	550		STY	VARNAM+1
7CEF:	A9 82	551		LDA	#\$82
7CF1:	85 12	552		STA	INTTYP
7CF3:	20 03 7D	553		JSR	:1
7CF6:	68	554		PLA	
7CF7:	AA	555		TAX	
7CF8:	A5 83	556		LDA	VARPNT
7CFA:	9D 26 7D	557		STA	ADXC,X
7CFD:	A5 84	558		LDA	VARPNT+1
7CFF:	9D 27 7D	559		STA	ADXC+1,X
7D02:	60	560		RTS	
7D03:	6C D3 9C	561	:1	JMP	(VNPTRG90)
		562			
7D06:	AD 27 7D	563	ISXC1	LDA	ADXC+1
7D09:	85 3D	564		STA	A1L+1
7D0B:	AD 26 7D	565		LDA	ADXC
7D0E:	85 3C	566		STA	A1L
		567		DO	KOPT-K6502
		568		LDA	(A1L)
		569		BNE	:00
		570		LDY	#1
		571		ELSE	
7D10:	A0 00	572		LDY	#0

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7D12: B1 3C      573      LDA      (A1L),Y
7D14: D0 04      574      BNE      :00
7D16: C8         575      INY
                        576      FIN
7D17: 98         577      TYA
7D18: 51 3C      578      EOR      (A1L),Y
7D1A: 60         579      :00      RTS
                        580      FCODE
7D1B: CB C9 CC   581      KILLDMSG ASC      "KILLED"
7D1E: CC C5 C4
7D21: 00         582      DFB      0
                        583      * Actually offsets from start of array segment are stored
7D22: 00 00      584      ADXH      DA      0
7D24: 00 00      585      ADXV      DA      0
7D26: 00 00      586      ADXC      DA      0
7D28: 00 00      587      ADIT      DA      0
7D2A: 00         588      XSAV      DS      1
                        589
                        590      MFIN
                        591      ERR      *-PHM
                        592      ORG

```

--End assembly, 748 bytes, Errors: 0

Symbol table - alphabetical order:

A1L	=\$3C	A2L	=\$3E	A4L	=\$42	ADADR	=\$9CD8
ADIT	=\$7D28	ADXC	=\$7D26	ADXH	=\$7D22	ADXV	=\$7D24
AROMBA	=\$409B	ARYTAB	=\$6B	AUXPTR	=\$06	BUFKBD	=\$031C
CH	=\$24	CHKCOM	=\$DEBE	COMBYTE	=\$E74C	CRDO	=\$DAFB
CV	=\$25	DIMFLG	=\$10	ERRFLG	=\$D8	ERRLIN	=\$DA
ERRMESS	=\$D260	ERRNUM	=\$DE	FCODE	=\$7D1B	FIN	=\$7BB2
FNDVAR2	=\$7ADA	FRETOP	=\$6F	FRMNUM	=\$DD67	GETADR	=\$E752
GETYOFF	=\$7C69	MD GOTO	=\$8000	HIMEM	=\$73	INPRT	=\$ED19
INSDS2	=\$F88C	INTTYP	=\$12	ISXC1	=\$7D06	K6502	=\$00
K65C02	=\$01	KILLDMSG	=\$7D1B	KILLED	=\$7BB5	KOPT	=\$00
L0	=\$7B27	L1	=\$7B2B	L2	=\$7B23	L3	=\$7B53
L4	=\$7BC9	L5	=\$7B01	L6	=\$7C7B	L60	=\$7CE2
L61	=\$7CA2	L7	=\$7C34	L8	=\$7C00	LENGTH	=\$2F
LINNUM	=\$50	LINPRT	=\$ED24	LOWTR	=\$9B	MFIN	=\$7D2B
MINSDS2	=\$F88C	MONVTAB	=\$FB5B	MOVE	=\$FE2C	MD MPHX	=\$8000
MD MPHY	=\$8000	MD MPLX	=\$8000	MD MPLY	=\$8000	OUTDO	=\$DB5C
OUTQUES	=\$DB5A	OUTSPC	=\$DB57	PCADJ	=\$F953	PCL	=\$3A
PHM	=\$7D2B	PRTEOL	=\$FC9C	QTERR	=\$D350	MD STID	=\$8000
STROUT	=\$DB3A	SUBFLG	=\$14	? SUITE	=\$4000	VALTYP	=\$11
VARNAM	=\$81	VARPNT	=\$83	VNARRG91	=\$9CD1	VNPTRG90	=\$9CD3
WAITKBD	=\$031B	XSAV	=\$7D2A	ZON	=\$7AE6	V JLOOP	=\$7BEA

Symbol table - numerical order:

K6502	=\$00	KOPT	=\$00	K65C02	=\$01	AUXPTR	=\$06
DIMFLG	=\$10	VALTYP	=\$11	INTTYP	=\$12	SUBFLG	=\$14
CH	=\$24	CV	=\$25	LENGTH	=\$2F	PCL	=\$3A

A1L	=\$3C	A2L	=\$3E	A4L	=\$42	LINNUM	=\$50
ARYTAB	=\$6B	FRETOP	=\$6F	HIMEM	=\$73	VARNAM	=\$81
VARPNT	=\$83	LOWTR	=\$9B	ERRFLG	=\$D8	ERRLIN	=\$DA
ERRNUM	=\$DE	WAITKBD	=\$031B	BUFKBD	=\$031C	MD MPHX	=\$8000
MD MPHY	=\$8000	MD MPLX	=\$8000	MD MPLY	=\$8000	MD STID	=\$8000
MD GOTO	=\$8000	? SUITE	=\$4000	AROMBA	=\$409B	FNDVAR2	=\$7ADA
ZON	=\$7AE6	L5	=\$7B01	L2	=\$7B23	L0	=\$7B27
L1	=\$7B2B	L3	=\$7B53	FIN	=\$7BB2	KILLED	=\$7BB5
L4	=\$7BC9	V JLOOP	=\$7BEA	L8	=\$7C00	L7	=\$7C34
GETYOFF	=\$7C69	L6	=\$7C7B	L61	=\$7CA2	L60	=\$7CE2
ISXC1	=\$7D06	FCODE	=\$7D1B	KILLDMSG	=\$7D1B	ADXH	=\$7D22
ADXV	=\$7D24	ADXC	=\$7D26	ADIT	=\$7D28	XSAV	=\$7D2A
PHM	=\$7D2B	MFIN	=\$7D2B	VNARRG91	=\$9CD1	VNPTRG90	=\$9CD3
ADADR	=\$9CD8	ERRMESS	=\$D260	QTERR	=\$D350	CRDO	=\$DAFB
STROUT	=\$DB3A	OUTSPC	=\$DB57	OUTQUES	=\$DB5A	OUTDO	=\$DB5C
FRMNUM	=\$DD67	CHKCOM	=\$DEBE	COMBYTE	=\$E74C	GETADR	=\$E752
INPRT	=\$ED19	LINPRT	=\$ED24	INSDS2	=\$F88C	MINSDS2	=\$F88C
PCADJ	=\$F953	MONVTAB	=\$FB5B	PRTEOL	=\$FC9C	MOVE	=\$FE2C

