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10 REM **RSX Designer** by Gareth L. Perkins
20 CALL &BBFF:MODE 2:PEN 1
30 INPUT "Enter Name of RSX >",name$
40 IF LEN(name$)>16 THEN GOTO 20:REM max 16 characters
50 IF LEFT$(name$,1)="!" THEN name$=RIGHT$(name$,LEN(name$)-1)
60 name$=UPPER$(name$):FOR a=1 TO LEN(name$):IF (ASC(MID$(name$,a,1))<65 OR ASC(MID$(name$,a,1))>90) AND ASC(MID$(name$,a,1))<>46 THEN PRINT "Illegal Name!":END:ELSE NEXT
70 PRINT:INPUT "What is the execution address for the RSX >",addr
80 IF addr<0 THEN addr=65536+addr

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90 PRINT:INPUT "What is the end address >",endaddr
100 IF endaddr<0 THEN endaddr=65536+endaddr
110 IF endaddr=0 THEN endaddr=addr
120 PRINT:INPUT "Do you wish to have a specified address to set up RSX (Y/N) >",q$:IF UPPER$(q$)="Y" THEN PRINT:INPUT "Address:",start:start=start-65536*(start<0):GOTO 140
130 start=addr-36
140 GOSUB 240
150 FOR i=0 TO 8:READ b$:POKE start+i,VAL("&H"+b$):NEXT
160 PRINT:PRINT "Actual Start Address &"

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170 table=start+9:t$=HEX$(table,4):POKE start+1,VAL("&"+RIGHT$(t$,2)):POKE start+2,VAL("&"+LEFT$(t$,2)):FOR i=1 TO LEN(name$):POKE table+8+i,ASC(MID$(name$,i,1)):NEXT:POKE table+7+i,PEEK(table+7+i)+128
180 buffer=start+14:FOR i=buffer TO buffer+3:POKE i,0:NEXT:b$=HEX$(buffer,4):POKE start+4,VAL("&"+RIGHT$(b$,2)):POKE start+5,VAL("&"+LEFT$(b$,2))
190 syntax=table+9:s$=HEX$(syntax,4):POKE table,VAL("&"+RIGHT$(s$,2)):POKE table+1,VAL("&"+LEFT$(s$,2))
200 POKE table+2,&C3:a$=HEX$(addr,4):POK

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<pre> E table+3,VAL("&"+RIGHT\$(a\$,2)):POKE tab le+4,VAL("&"+LEFT\$(a\$,2)) 210 finish=start+19+LEN(name\$)+1:POKE fi nish,0:CALL start:PRINT:PRINT "RSX:!"nam e\$,"installed.":PRINT 220 PRINT "Start Address of RSX:&"HEX\$(s tart,4)" ("start")":PRINT "End Address o </pre>	<pre> f RSX:&"HEX\$(finish,4)" ("finish")":PRIN T "Start Address of Code:&"HEX\$(addr,4)" ("addr")":PRINT "End Address of Code:&" HEX\$(endaddr,4)" ("addr")" 221 PRINT:PRINT "Do you want another RSX (Y/N) >";:INPUT "",a\$:IF UPPER\$(a\$)="Y" THEN RUN ELSE END 230 DATA 01,00,00,21,00,00,C3,D1,BC </pre>	<pre> 240 IF start>65536+%A500 THEN start=star t-10:GOTO 240:ELSE IF start<2048 THEN st art=start+10:GOTO 240 250 IF start+19+LEN(name\$)+1>=addr AND s tart<=endaddr THEN PRINT "It will overwr ite your Code!":END 260 IF start<HIMEM THEN MEMORY start-1 270 RETURN </pre>
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