```
 1: ()
 2: Prgm
 3: ©Measures the CPU's clock frequency
 4: © v1.2
 5: Local start,time,auto,imprec
 6:
 7: Try
 8:  If isVar(automeas) and automeas=true Then
 9:   true→auto
10:  Else
11:   false→auto
12:  EndIf
13: Else
14:  ClrErr
15:  false→auto
16: EndTry
17:
18: If auto Then
19:  Goto measure
20: EndIf
21:
22: Dialog
23:  Title "Clock Frequency Measurement"
24:  Text "This interactive program will measure"
25:  Text "the clock frequency of this calculator's"
26:  Text "Motorola 68000 CPU. The results will be"
27:  Text "shown on-screen and stored to var `clk`."
28:  Text ""
29:  Text "WARNING: The frequency checking routine"
30:  Text "is uninterruptible and will take ~30-90s."
31: EndDlog
32: If ok=0 Then
33:  Goto quit
34: EndIf
35:
36: Lbl measure
37: misc\statline("msg:Measuring clock frequency…")
38:
39: Try
40:  mathtool.timing(misc\cfasm(),true)→time
41:  1/time*1000-1/(time+.05)*1000→imprec
42: Else
43:  ClrErr
44:  startTmr()→start
45:  Exec "203c034fb5e2538066fc4e750000"
46:  checkTmr(start)→time
47:  1/time*1000-1/(time+1)*1000→imprec
48: EndTry
49:
50: misc\statline("msg:Done! Time = "&string(time)&"s")
51:
52: round(1/time*1000,3)→clk
53:
54: If auto Then
55:  Goto quit
56: EndIf
57:
58: If clk<14 Then
59:  Dialog
60:   Title "Clock Frequency Measurement"
61:   Text "Your 68K's clock frequency is "&string(clk)&" MHz"
```

```
62:   Text "(Possibly accurate to ±"&string(round(imprec,3))&" MHz)"
63:  EndDlog
64: Else
65:  Dialog
66:   Title "Clock Frequency Measurement"
67:   Text "Your 68K's clock frequency is "&string(clk)&" MHz"
68:   Text "(Possibly accurate to ±"&string(round(imprec,3))&" MHz)"
69:   Text ""
70:   Text "Congrats on the overclock!"
71:  EndDlog
72: EndIf
73:
74: Lbl quit
75: If auto Then
76:  DelVar automeas
77: EndIf
78: EndPrgm
```