

## RTC Master 128 Documentation

When you list line 20 of EZ.BOOT, you will see the line immediately after this paragraph. Use this line to save your personalized EZ.BOOT. Just make any changes you want, then list this line. It will appear as the line shown immediately after this paragraph. set 'u=' to whatever drive number you want to save your new EZ.BOOT to, and press RETURN with the cursor on the line.

```
u=11:scR"ez.boot",u(u):dS"ez.boot",u(u):dV"ez.boot",u(u)
```

This is the date of the last editing done to this BOOT file. This will not necessarily change with each version of RTCMaster. It will only change when there are edits made to the EZ.BOOT file. If you have problems to report or questions to ask regarding EZ.BOOT, refer to this date so we know that you are using the most current version. There are various versions of EZ.BOOT, some with added features, and the date will help us to answer questions in many cases.

25 :

30 rem 10/18/93

35 :

New to RTCMaster is the ability to use different character sets. Any 9 block character set may be used, including those developed for use on the C64. All you have to do is include the file name in quotes in the next line. If you don't want to use a font, delete the file name from in quotation marks.

Ex: To use a font:   fast:f\$="font.roman":if f\$>"" then begin

Don't use a font: fast:f\$="":if f\$>"" then begin

40 fast:f\$="font.roman":if f\$>"" then begin

45 : blood (f\$),u(peek(186)),b0,p24576:restore 450:z=.

50 : do

55 : read a%:if not a% then poke 4864+z,a%:z=z+1

60 : loop until a%=-1

65 : sys 4864

70 bend

75 :

80 fast:graphic 1:graphic 5

85 :

90 poke 54534,5:rem 4k comm

95 poke 48,7

100 poke 50,7

105 poke 52,7:clr

110 :

If you have a RamLink with a clock installed, you can have EZ.BOOT set the program time clock from the clock in RamLink. To do that, you have to identify which device you have your RamLink configured as. That is a simple matter of assigning that number to the variable RL% in the next line.

Ex: rl%=16

115 rl%=.

120 dv=peek(186):if dv30 then dv=8

The file 'dflt.setup' is a configuration file included in the original package with RTCMaster. It includes things like colors, drive settings, printer settings, etc. You can create your own setup file with your preferences using the defaults overlay (ovrl.default) if you like. When you do this, you must either call it 'dflt.mysetup' or change the name in quotes in the next line to the name you call your preferences file. The filename should be 'dflt.' something.

```
125 blood "dflt.mysetup",u(dv)
```

```
130 :
```

```
135 trap 445
```

The next line is an important configuration setting. DCD is the variable that sets a mask to test for carrier. Carrier is a signal that your modem uses to let the computer know there is a connection between your system and a remote system. Commodore modems (translate that '1670' modems) should have 'dcd=16', whereas most other modems that are Hayes standard, should have 'dcd=.'. The '.' character is the same as a zero. The way you know if your setting is incorrect is if RTCMaster thinks you are online (connected to another system over the phone line) when you are not. You will see Smiley in the Carrier detect position on the main status line:

```
Ex: 02:13:55:C:25001:B*:H:**.*.A:08:08:08:$***.**
```

```
:..... Either Smiley or *
```

If you run into this, change the setting. If you use a SwiftLink,

disregard this setting. It has only one setting, and EZ.BOOT will install that for you automatically.

```
140 dcd=.:poke 56833,.:poke 56834,170:rem check swiftlink
145 if peek(56834)=170 then f$="swift.obj":dcd=64:else f$="rtc.obj"
150 bload(f$),u(dv)
155 :
160 f$="install.obj":bload (f$),u(dv)
165 :
```

If you use an REU, you will be asked if you want to use DMA or RamDos access. They are mutually exclusive. RamDos is the recommended choice since it most closely emulates a disk drive type access. EZ.BOOT will make this setting for you each time you run it if you set io% to asc("r") in the next line. There are only 3 possible settings for io%, for 3 different results. They are:

```
Ex: io% = .      No REU installed
      io% = asc("r")  REU Installed - Use RAMDOS (Recommended setting)
      io% = asc("d")  REU Installed - Use DMA access
```

If you do not set io% before running EZ.BOOT and you have an REU installed, you will be asked for your settings. (Note! It has been discovered that if you are using a RamLink and RAMDOS access to your REU, your RamLink switches should be set to Normal/Enable. See also the BB thread at the end of this document for a more detailed discussion on other options)

```
170 io%=.:rem io%=asc("r"):rem amdos ma no reu
```

```
175 if io%>. then begin
180 : poke 842,io%:poke 843,13
185 : poke 844,55-((asc("y")-55)*(io%=82))
190 : poke 845,13:poke 208,4
195 bend
```

If you select RamDOS access, you will need to assign your REU a device number from 8 to 30. Select a number that none of your disk drives is using and change the 13 in the next line to whatever device number (from 8 to 30) that you want to use for your REU. The default is 13, which means to read from or write to the REU, you will have to set your drive number to 13 in RTCMaster.

```
200 sys 6912,dv,13:fast:rem ramdos dvc 13
205 :
210 f$="rtcm.obj":bload(f$),u(dv)
215 f$="hiblock":bload(f$),u(dv)
```

The next few lines allow you to set up to auto-answer the prompts you are presented if you have a SwiftLink cartridge. The prompts ask what page you want to be the SwiftLink interface page, either 1] \$d700, 2] \$de00 (default), or 3] \$df00. The second prompt is for the baud rate, and the options are 1] 300 baud, 2] 1200 baud, 3] 2400 baud (default), or 4] 9600 baud. Just put the appropriate values in the lines below. This is the 'dynamic keyboard' technique you may have heard of... fooling the computer into thinking you pressed the keys already.

```
220 if dcd=64 then begin
```

```
225 : poke 842,asc("2"):poke 843,13:rem $de00
230 : poke 844,asc("3"):poke 845,13:rem 2400
235 : poke 208,4
240 bend
245 sys 4876,dvc,dcd
250 df=peek(4895)*256+peek(4894):rem dflt. file load address
```

This is the same 'dflt.' file described above in the next line. If you change it there, you should change it here also. It is needed for some things earlier, and is overwritten, thus must be reloaded here.

```
255 f$="dflt.mysetup":bload(f$),p(df),u(dv)
260 sys 4870: rem install defaults
265 f$="ovrl.autolog":bload(f$),u(dv)
270 f$="rtcmzk":bload(f$),p57344,u(dv)
275 :
280 rem non-sl baud
285 :
290 if peek(56834)170 then begin
```

EZ.BOOT is configured to automatically set your user port modem baud rate for you each time you run it. Earlier versions, and the BOOT program that came in the original package, required you to enter this information. The SwiftLink version still does. But if you use a user port (non-swiftlink) modem, you can have this setting made automatically. Just put your baud rate (300, 1200, or 2400) in quotes in the next line. (See the note about MNP modems at the end of this document.)

```
295 : io$="2400":io%=-10*(io$="2400")-8*(io$="1200")-6*(io$="300")
300 : open2,2,2,chr$(io%)+chr$(0):poke 186,dv
305 bend
310 :
315 print """;poke 673,..:sys 2816:rem init nmi
320 :
325 bank0:poke dec("ed00"),..:poke dec("ee00"),..:poke dec("ef00"),..:bank 15
330 :
335 if rl%>. then begin
```

This set of lines is the routine that actually reads and sets RTCMaster's clock from the clock in your RamLink if you have one. This is triggered by the setting of RL%, described earlier in this document.

```
340 : open15,rl%,15:print#15,"t-rb"
345 : for x=. to 3:get#15,a$:next:bank 15
350 : get#15,a$:poke 56331,asc(a$)
355 : get#15,a$:poke 56330,asc(a$)
360 : get#15,a$:poke 56329,asc(a$)
365 : poke 56328,0:close15
370 bend
375 :
```

RTCMaster supports auto-logon scripts that can be set to auto-execute by EZ.BOOT. If you want to use this feature, simply put the name of the script you want executed when you first run EZ.BOOT into the quotation marks in the next line. If you don't want to use the same

script all the time, delete the name in the quotes. In that case, you will be asked each time if you want to use an auto-logon script, and if so, which one.

Ex: io\$="scrp.mailbb"+chr\$(.) Uses scrp.mailbb  
io\$="scrp."+chr\$(.) Doesn't use any script

```
380 io$="scrp.mailbb"+chr$(.):rem *must* end w/chr$(.)
385 poke 512,.:if len(io$)>6 then begin
390 : for x=1 to len(io$)
395 : poke 511+x,asc(mid$(io$,x,1))
400 : next
405 bend
410 :
```

You can send your mode whatever initialization string you like when you first start up RTCMaster. Just assign the string to io\$ in the next line. Do not remove the '+chr\$(13)+chr\$(.)' at the end of the assignment. RTCMaster needs that.

Note! Some modems have less of the Hayes AT command set available to them, and thus the init string should be adjusted. For example, the 1670 does not support the X commands or the D commands or the &C commands. See the program file BOOT.1670, which has the appropriate init string, or at least the nucleus of one, if you want to expand yours. The Arotek MiniModem, from what I understand, does not support the X4 command, so you will want to remove that from the INIT string below if you use that modem. See also the discussion at the end of this document if you have an MNP modem.

```
415 io$="at l s7=50 x4 &c1 &d2"+chr$(13)+chr$(.)
420 io=pointer(io$):hi=int(io/256):lo=io-(hi*256)
425 poke 251,lo:poke 252,hi:poke 250,asc("y"):sys 4873,,18
430 :
435 rem error trap
440 :
445 print"“gqÿ" f$ " >>> £o" err$(er) " error" chr$(143) " >
```