PC164 Real Time Clock (RTC)

- Base address for accessing the time is 0x85.8000.0E00 (*page B-4 of the PC164 TRM*)

- To access the various time and alarm registers first write the register number to the base address, the value of that register can then be read from 0x85.8000.0E20. (*NB. All the registers return a single byte value BUT must be read using a 32 bit read cycle*)

- The return value of the register is in the second byte of the 32 bit word read from address 0x85.8000.0E20, i.e. if the data value read is 0xFFFF**26**0D then the register value is 0x26.

- The table of registers is:

Number	Type	Name
0	R/W	Seconds
1	R/W	Seconds (Alarm)
2	R/W	Minutes
3	R/W	Minutes (Alarm)
4	R/W	Hours
5	R/W	Hours (Alarm)
6	R/W	Day of Week
7	R/W	Day of Month
8	R/W	Month
9	R/W	Year
A	R/W	
B	R/W	(Bit 0: Read only)
C	R	
D	R	
E-FF	R/W	General purpose

- Periodic interrupt rate is set using the first 4 bits of register A i.e. the first of the two hex

digits. The lower the number the faster the rate. 0xf corresponds to 2Hz and this rate doubles for each decrement.