

## HP 9000 Series 300 Computers: Upgrade HP 9000 Model 380 to Model 385 Specification

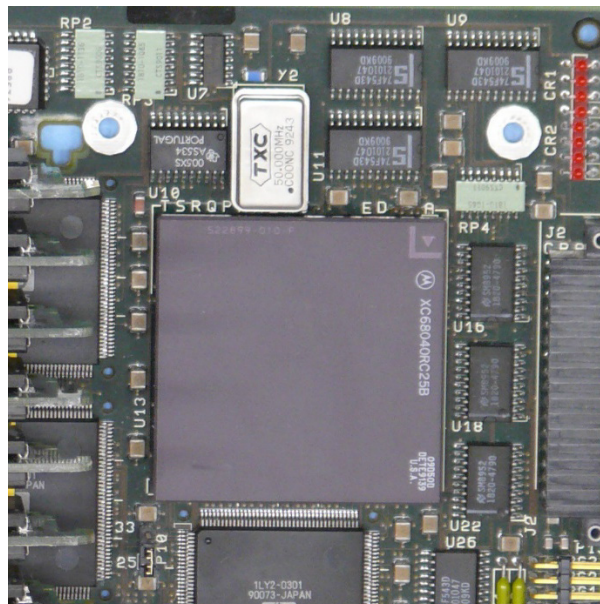
The HP 9000 model 380 was fitted with a Motorola 68040 CPU running at 25 MHz. The processor board (HP part number 98574-66510) was designed to operate at CPU clock speeds up to 33 MHz and the system is easily upgraded to this specification (designated model 385).

### Bill of Materials

1. Motorola MC68040RC33A or MC68040RC40A CPU (168-pin PGA package)
2. Suitable heatsink (e.g. 43 mm x 43 mm x 10 mm) and bonding film
3. 66 MHz standard clock oscillator with tristate capability in 14-pin DIP package (N.B. the CPU runs as exactly half the oscillator speed)

### Procedure

1. Observe anti-static precautions
2. Remove the processor board from the computer
3. Remove the old clock oscillator (component Y2 seen above the CPU in Fig. 1)
4. Remove the old CPU by levering it out in small stages working around all four sides
5. Align the new CPU in the socket such that pin 1 is in the top-right corner as seen in Fig. 1. Push firmly home all around.
6. Use bonding film to attach the heat sink to the top face of the CPU
7. Insert the new oscillator with pin 1 in the bottom-right corner as seen in Fig. 1
8. Move the jumper seen in the bottom left-hand corner of Fig. 1 to the 33 position
9. Re-install the processor board in the computer and test



**Fig. 1.** HP 98574-66510 processor board fitted with 25 MHz 68040.

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