SNTP Client Software State Diagram

Client initialisation

Checking command line arguments

Determining Unicast or Multicast

Setting port number

Setting hostname

Sending request (Unicast or Multicast)

Default polling time: 20 seconds
Default mode: Unicast
Default Port: 123
Default Hostname: ntp.uwe.ac.uk

Listening for response...

No response in 20 seconds

Stratum > 15

Check stratum

Stratum == 0

Kiss of Death Code

Calculate offset and delay

Check Leap Indicator

LI == 3

LI == 0

LI == 1

LI == 2

Set time (no leap)

Set time (+1 second)

Set time (-1 second)