

## Chapter 17

# Monitoring NTP with the SRC CLI

This chapter describes how to monitor the Network Time Protocol (NTP) with the SRC CLI. You can monitor NTP on Solaris platforms as well as C-series platforms. Topics include:

- Viewing NTP Peers with the SRC CLI on page 175
- Viewing Statistics for NTP with the SRC CLI on page 176
- Viewing Internal Variables for NTP with the SRC CLI on page 176

## Viewing NTP Peers with the SRC CLI

To view a list of NTP peers with the SRC CLI:

```
user@host> show ntp associations
  remote      local      st poll reach  delay  offset  disp
=====
*myserver.jnpr.n 192.0.7.46      3 1024  377 0.00038 -0.000573 0.12178
```

Table 30 describes the output fields for the `show ntp associations` command. Output fields are listed in the approximate order in which they appear.

**Table 30: show ntp associations Output Fields**

Field Name	Field Description
remote	Address or name of the remote NTP peer
local	Address or name used by NTP on the local system
st	Stratum of the remote peer
poll	Polling interval, in seconds
reach	Reachability register, in octal
delay	Current estimated delay of the peer, in milliseconds
offset	Current estimated offset of the peer, in milliseconds
disp	Current estimated dispersion of the peer, in milliseconds

## Viewing Statistics for NTP with the SRC CLI

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To view statistics for NTP with the SRC CLI:

```
user@host> show ntp statistics
time since restart:    2371617
time since reset:     2371617
packets received:     38765
packets processed:    2573
current version:      38761
previous version:     0
bad version:          0
access denied:        36188
bad length or format: 0
bad authentication:   0
rate exceeded:        0
```

## Viewing Internal Variables for NTP with the SRC CLI

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To view information about internal variables for NTP with the SRC CLI:

```
user@host> show ntp status
system peer:          menemsha.jnpr.net
system peer mode:     client
leap indicator:       00
stratum:              4
precision:            -20
root distance:        0.02245 s
root dispersion:      0.07689 s
reference ID:         [10.227.2.100]
reference time:       c922b152.86dd0529 Thu, Dec 7 2006 10:27:14.526
system flags:         auth monitor ntp kernel stats
jitter:               0.000183 s
stability:            1.728 ppm
broadcastdelay:       0.003998 s
authdelay:            0.000000 s
```