

Configuring E3 BERT Properties

This section discusses BERT properties for the E3 interface specifically. For general information about the JUNOS implementation of the BERT procedure, see Interface Diagnostics.

You can configure an E3 interface to execute a bit error rate test (BERT) when the interface receives a request to run this test. You specify the duration of the test, the pattern to send in the bit stream, and the error rate to include in the bit stream by including the `bert-period`, `bert-algorithm`, and `bert-error-rate` statements at the `[edit interfaces interface-name e3-options]` hierarchy level:

```
[edit interfaces interface-name e3-options]
bert-algorithm algorithm;
bert-error-rate rate;
bert-period seconds;
```

By default, the BERT period is 10 seconds. You can configure the BERT period to last from 1 through 239 seconds on some PICs and from 1 through 240 seconds on other PICs.

rate is the bit error rate. This can be an integer from 0 through 7, which corresponds to a bit error rate from 10^{-0} (0, which corresponds to no errors) to 10^{-7} (1 error per 10 million bits).

algorithm is the pattern to send in the bit stream. On E3 interfaces, you can also select the pattern to send in the bit stream by including the `bert-algorithm` statement at the `[edit interfaces interface-name interface-options]` hierarchy level:

```
[edit interfaces interface-name interface-options]
bert-algorithm algorithm;
```

For a list of supported algorithms, enter a ? after the `bert-algorithm` statement; for example:

```
[edit interfaces e3-0/0/0 e3-options]
user@host# set bert-algorithm ?
Possible completions:
pseudo-2e11-o152 Pattern is 2^11 - 1 (per 0.152 standard)
pseudo-2e15-o151 Pattern is 2^15 - 1 (per 0.152 standard)
pseudo-2e20-o151 Pattern is 2^20 - 1 (per 0.151 standard)
pseudo-2e20-o153 Pattern is 2^20 - 1 (per 0.153 standard)
```

For specific hierarchy information, see individual interface types. For information about running the BERT procedure, see the *JUNOS System Basics and Services Command Reference*.

