

## Tracing Operations of the pppd Process

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To trace the operations of the routing platform's pppd process, include the **traceoptions** statement at the [edit protocols ppp] hierarchy level:

```
[edit protocols ppp]
[Unresolved xref] {
    file filename <files number> <match regular-expression> <size size> <world-readable |
    no-world-readable>;
    flag flag;
    level severity-level;
    no-remote-trace;
}
```

To specify more than one tracing operation, include multiple **flag** statements.

You can specify the following flags in the **traceoptions** statement:

- **access**—Access code
- **address-pool**—Address pool code
- **all**—All areas of code
- **auth**—Authentication code
- **chap**—Challenge Handshake Authentication Protocol (CHAP) code
- **config**—Configuration code
- **ifdb**—Interface database code
- **lcp**—LCP state machine code
- **memory**—Memory management code
- **message**—Message processing code
- **ncp**—NCP state machine code
- **pap**—Password Authentication Protocol (PAP) code
- **ppp**—PPP protocol processing code
- **radius**—RADIUS processing code
- **rtsock**—Routing socket code
- **session**—Session management code
- **signal**—Signal handling code
- **timer**—Timer code
- **ui**—User interface code

For general information about tracing, see the tracing and logging information in the *JUNOS System Basics Configuration Guide*.

