

Using Regular Expressions with the Pipe Symbol

The `except`, `find`, and `match` filters used with the pipe symbol employ regular expressions to filter output. Juniper Networks uses the regular expressions as defined in POSIX 1003.2. (See Table 1 on page 1.) If the regular expression contains spaces, operators, or wildcard characters, enclose the expression in quotation marks.

Table 1: Common Regular Expression Operators in Operational Mode Commands

Operator	Function
	Indicates that a match can be one of the two terms on either side of the pipe.
^	Used at the beginning of an expression, denotes where a match should begin.
\$	Used at the end of an expression, denotes that a term must be matched exactly up to the point of the \$ character.
[]	Specifies a range of letters or digits to match. To separate the start and end of a range, use a hyphen (-).
()	Specifies a group of terms to match.

For example, if a command produces the following output:

```
1 2
2 2
3 2 1
4
```

A pipe filter of `| match 2` displays the following output:

```
1 2
2 2
3 2 1
```

A pipe filter of `| except 1` displays the following output:

```
2 2
4
```

- Related Topics**
- Disregarding Output That Does Not Match a Regular Expression
 - Displaying Output from the First Match of a Regular Expression
 - Displaying Output That Matches a Regular Expression

