

**NAME**

Nagios::Plugin::Performance – class for handling Nagios::Plugin performance data.

**SYNOPSIS**

```
use Nagios::Plugin::Performance use_die => 1;

# Constructor (also accepts a 'threshold' obj instead of warning/critical)
$p = Nagios::Plugin::Performance->new(
    label      => 'size',
    value      => $value,
    uom        => "kB",
    warning    => $warning,
    critical   => $critical,
    min        => $min,
    max        => $max,
);

# Parser
@perf = Nagios::Plugin::Performance->parse_perfstring(
    "/=382MB;15264;15269;; /var=218MB;9443;9448"
)
or warn("Failed to parse perfstring");

# Accessors
for $p (@perf) {
    printf "label: %s\n", $p->label;
    printf "value: %s\n", $p->value;
    printf "uom: %s\n", $p->uom;
    printf "warning: %s\n", $p->warning;
    printf "critical: %s\n", $p->critical;
    printf "min: %s\n", $p->min;
    printf "max: %s\n", $p->max;
    # Special accessor returning a threshold obj containing warning/critical
    $threshold = $p->threshold;
}

# Perfdata output format i.e. label=value[uom];[warn];[crit];[min];[max]
print $p->perfoutput;
```

**DESCRIPTION**

Nagios::Plugin class for handling performance data. This is a public interface because it could be used by performance graphing routines, such as nagiostat (<http://nagiostat.sourceforge.net>), perfparse (<http://perfparse.sourceforge.net>), nagiosgraph (<http://nagiosgraph.sourceforge.net>) or NagiosGrapher (<http://www.nagiosexchange.org/NagiosGrapher.84.0.html>).

Nagios::Plugin::Performance offers both a parsing interface (via `parse_perfstring`), for turning nagios performance output strings into their components, and a composition interface (via `new`), for turning components into perfdata strings.

**USE'ING THE MODULE**

If you are using this module for the purposes of parsing perf data, you will probably want to set `use_die => 1` at use time. This forces &Nagios::Plugin::Functions::nagios\_exit to call `die()` – rather than `exit()` – when an error occurs. This is then trappable by an eval. If you don't set `use_die`, then an error in these modules will cause your script to exit

**CLASS METHODS**

`Nagios::Plugin::Performance->new(%attributes)`

Instantiates a new Nagios::Plugin::Performance object with the given attributes.

`Nagios::Plugin::Performance->parse_perfstring($string)`

Returns an array of Nagios::Plugin::Performance objects based on the string entered. If there is an error parsing the string – which may consists of several sets of data – will return an array with all



the successfully parsed sets.

If values are input with commas instead of periods, due to different locale settings, then it will still be parsed, but the commas will be converted to periods.

## OBJECT METHODS (ACCESSORS)

`label, value, uom, warning, critical, min, max`

These all return scalars. min and max are not well supported yet.

`threshold`

Returns a Nagios::Plugin::Threshold object holding the warning and critical ranges for this performance data (if any).

`rrdlabel`

Returns a string based on 'label' that is suitable for use as dataset name of an RRD i.e. munges label to be 1–19 characters long with only characters [a-zA-Z0-9\_].

This calls `$self->clean_label` and then truncates to 19 characters.

There is no guarantee that multiple N:P:Performance objects will have unique rrdlabels.

`clean_label`

Returns a “clean” label for use as a dataset name in RRD, ie, it converts characters that are not [a-zA-Z0-9\_] to \_.

It also converts “/” to “root” and “{/name}” to “{name}”.

`perfoutput`

Outputs the data in Nagios::Plugin::perfdata format i.e. `label=value[uom];[warn];[crit];[min];[max]`.

## SEE ALSO

[Nagios::Plugin](#), [Nagios::Plugin::Threshold](#), <http://nagiosplug.sourceforge.net>.

## AUTHOR

This code is maintained by the Nagios Plugin Development Team: see <http://nagiosplug.sourceforge.net>.

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