#### Name

gperl - execute Perl commands in groff documents

## **Synopsis**

```
gperl [file ...]
gperl -h
gperl --help
gperl -v
gperl --version
```

## **Description**

This is a preprocessor for groff(1). It allows the use of perl(7) code in groff(7) files. The result of a Perl part can be stored in groff strings or numerical registers based on the arguments at a final line of a Perl part.

If no operands are given, or if *file* is "-", *gperl* reads the standard input stream. A double-dash argument ("--") causes all subsequent arguments to be interpreted as *file* operands, even if their names start with a dash. **-h** and **--help** display a usage message, whereas **-v** and **--version** display version information; all exit afterward.

# Perl regions

Perl parts in groff files are enclosed by two .Perl requests with different arguments, a starting and an ending command.

#### **Starting Perl mode**

The starting *Perl request* can either be without arguments, or by a request that has the term **start** as its only argument.

- .Perl
- .Perl start

## **Ending Perl mode without storage**

A .Perl command line with an argument different from **start** finishes a running *Perl part*. Of course, it would be reasonable to add the argument **stop**; that's possible, but not necessary.

- Perl stop
- .Perl other than start

The argument *other\_than\_start* can additionally be used as a *groff* string variable name for storage — see next section.

## **Ending Perl mode with storage**

A useful feature of *gperl* is to store one or more results from the *Perl mode*.

The output of a *Perl part* can be got with backticks `...`.

This program collects all printing to STDOUT (normal standard output) by the Perl **print** program. This pseudo-printing output can have several lines, due to printed line breaks with \n. By that, the output of a Perl run should be stored into a Perl array, with a single line for each array member.

This Perl array output can be stored by *gperl* in either

```
groff strings
```

by creating a groff command .ds

groff register

by creating a groff command .rn

The storage modes can be determined by arguments of a final stopping **.Perl** command. Each argument **.ds** changes the mode into *groff string* and **.nr** changes the mode into *groff register* for all following output parts.

By default, all output is saved as strings, so .ds is not really needed before the first .nr command. That suits to groff(7), because every output can be saved as groff string, but the registers can be very restrictive.

In string mode, gperl generates a groff string storage line

```
.ds var_name content
```

In register mode the following groff command is generated

```
.nr var_name content
```

We present argument collections in the following. You can add as first argument for all **stop**. We omit this additional element.

## .Perl .ds var\_name

This will store 1 output line into the groff string named *var\_name* by the automatically created command

```
.ds var_name output
```

#### .Perl var name

If *var\_name* is different from **start** this is equivalent to the former command, because the string mode is string with **.ds** command. default.

## .Perl var\_name1 var\_name2

This will store 2 output lines into groff string names *var\_name1* and *var\_name2*, because the default mode .ds is active, such that no .ds argument is needed. Of course, this is equivalent to

```
.Perl .ds var_name1 var_name2
and
.Perl .ds var_name1 .ds var_name2
```

## .Perl .nr var\_name1 varname2

stores both variables as register variables. gperl generates

```
.nr var_name1 output_line1
.nr var_name2 output_line2
```

#### .Perl .nr var name1 .ds var name2

stores the 1st argument as register and the second as string by

```
.nr var_name1 output_line1
.ds var_name2 output_line2
```

## **Example**

A possible *Perl part* in a *roff file* could look like that:

```
before
.Perl start
my $result = 'some data';
print $result;
.Perl stop .ds string_var
after
```

This stores the result "some data" into the *roff string* called **string\_var**, such that the following line is printed:

```
.ds string_var some data
```

by gperl as food for the coming groff run.

A Perl part with several outputs is:

```
.Perl start
print "first\n";
print "second line\n";
print "3\n";
.Perl var1 var2 .nr var3
```

This stores 3 printed lines into 3 *groff* strings. **var1,var2,var3**. So the following *groff* command lines are created:

```
.ds var1 first
```

```
.ds var2 second line
.nr var3 3
```

## **Authors**

gperl was written by Bernd Warken (groff-bernd.warken-72@web.de).

## See also

Man pages related to groff are groff(1), groff(7), and grog(1).

Documents related to *Perl* are *perl*(1), *perl*(7).