Fo. another thing, that '1' should be 'length p', otherwise the macro will only work for a path of length 1.

Indeed, there is no need to draw just subpaths of p; there is no harm in drawing p itself twice:

```
def draw_dbl_arrow text t =
  drawarrow reverse p;
  drawarrow p
enddef;
```

In fact, the original poster asked for a triple-headed arrow, with two arrow heads at (for the sake of argument) the end of the path. If you can pick the right small value of e, you can achieve this by just drawing the path three times:

```
def draw_trp_arrow text t =
  drawarrow reverse p;
  drawarrow p;
  drawarrow subpath (0, length p - e) of p
enddef;
```

But what value to pick for e? You could just experiment, but different values will be needed for different paths to get consistent results. A better approach is to find the time at which a point traversing path p is a certain fixed distance (namely, the length of an arrow head, ahlength) from the end of p, and to draw the corresponding subpath of p. You can find that time using intersectiontimes, intersecting p with a circle of the appropriate size centred on the end of p.

```
def draw_trp_arrow text t =
  drawarrow reverse p;
  drawarrow p;
  path q;
  q := fullcircle scaled (2*ahlength)
       shifted (point (length p) of p);
  numeric tp, tq;
  (tp,tq) = p intersectiontimes q;
  drawarrow subpath (0, tp) of p
enddef;
```

On the same path as before, draw_trp_arrow gives

It is assumed that p is suitably well-behaved, that is, that it crosses the small circle just once.

(Again, it is possible to do it without those assignments, but then the argument to the third drawarrow gets rather unwieldy.)

⋄ Jeremy Gibbons
  Oxford Brookes University
  jgibbons@brookes.ac.uk

LATEX

Default Docstrip Headers

LaTeX3 project team

Many LaTeX users now distribute packages in documented source form using the docstrip system. Docstrip allows a header to be placed on generated package files, suitable for copyright information or distribution conditions.

If the docstrip install file distributed with a package does not provide an explicit header, the docstrip system will add a default header to all generated files. Previously the default header was the following text:

```
This is file 'myfile.sty',
generated with the docstrip utility.

The original source files were:

myfile.dtx  (with options: 'package')

IMPORTANT NOTICE:

For the copyright see the source file.

You are *not* allowed to modify this file.

You are *not* allowed to distribute this file.
For distribution of the original source see the terms
for copying and modification in the file myfile.dtx.
```

Unfortunately the above conditions make it illegal to distribute the generated file, even if the full sources are included, thus making it impossible to include the package in 'ready to run' distributions such as the TeX Live CD.

Starting with the 1998/06/01 release of LaTeX the default header has been changed to allow such usage; it is now as follows:

```
This is file 'myfile.sty',
generated with the docstrip utility.

The original source files were:

myfile.dtx  (with options: 'package')

IMPORTANT NOTICE:

For the copyright see the source file.

Any modified versions of this file must be renamed
with new filenames distinct from myfile.sty.

For distribution of the original source see the terms
for copying and modification in the file myfile.dtx.
```

```
This generated file may be distributed as long as the
original source files, as listed above, are part of
the same distribution. (The sources need not
necessarily be in the same archive or directory.)
```

Note: This change *does not* affect any distribution that sets an explicit preamble in the docstrip install file. In particular it does not result in any changes to the distribution conditions placed on files generated from the base LaTeX distribution.

If you currently distribute a package on a public archive which does not specify a docstrip preamble (with the \preamble or \usepreamble commands in the docstrip install file) then this change **will affect you**.

- We hope that you will prefer the new default, which allows your package to be used in many of the more popular TeX distributions.
- However, if you prefer the more restrictive distribution conditions in the previous releases then you will need to update your install file to specify the command

      \usepreamble\originaldefault

  before the commands generating the affected package file.

We apologise that this change potentially requires package authors to update their files on the public archives, but the old default text caused great problems for many distributors and there was no way to change the default behaviour without affecting existing files using that default.

References

[1] Frank Mittelbach, Denys Duchier, Johannes Braams, Marcin Woliński, and Mark Wooding. The docstrip program. Part of the LaTeX distribution as file docstrip.dtx.

[2] Michel Goossens, Frank Mittelbach and Alexander Samarin. *The LaTeX Companion*, chapter 14. Addison-Wesley, Reading, Massachusetts, 1994.

◇ LaTeX3 project team
Johannes Braams
David Carlisle
Alan Jeffrey
Frank Mittelbach
Chris Rowley
and Rainer Schöpf
latex-l@relay.urz.uni-heidelberg.de

Editor's note: To join the mailing list for the LaTeX3 project, send email to listserv@relay.urz.uni-heidelberg.de. The body of the message should contain one line:

    subscribe latex-l firstname lastname