## The program package\*

Martin Ward<sup>†</sup>

May 5, 2017

This is the "program" style option which sets up the program and programbox environments, keywords for programs and a few goodies. *Note:* Within the program environment:

- (1) Newlines are significant.
- (2) Each line is in math mode, so for example spaces in the input file are not significant.
- (3) \\ within a line causes a linebreak in the output.

We also define a "programbox" environment which typesets a program in a box. Useful for keeping a pice of code on one page or for typesetting small programs in running text. We also redefine \(( and \) as \begin{programbox} and \end{programbox}. The \tab and \untab commands are defined to have no effect while outside a program environment, hence a single-line program can be typeset in maths mode without the overhead associated with programbox.

The notation  $|variable_name|$  can be used within normal text, maths expressions or programs to indicate a variable name. Use |variable| to get a normal |variable| symbol in a program. The commands A, B, B, T and T typeset the corresponding bold letter with the next object as a substript (eg S1 typesets  $S_1$  etc). They now cope with primes as well, (eg S2''). The program.sty file can be easily edited to reflect your favoured style. Typesetting a program is as easy as:

 $\(\F x \neq 0 \FI\)$ 

See the program-demo.tex file for examples.

The file should work with or without AMS-IATEX.

This work is released under the GPL version 3.

<sup>\*</sup>This manual corresponds to program.sty v3.3.14, dated May 5, 2017.

<sup>†</sup>martin@gkc.org.uk, Martin.Ward@smltd.com

http://www.gkc.org.uk/