

hello.world.

## 1 User commands

*basic*

4  
72.26999pt  
722.7pt

## 2 Hooks

Before Begin stuff(outside).At Begin stuff(inside).Begin stuff. This is Stuff! At  
End stuff(inside).End stuff.After End stuff(outside).

Before Begin equation(outside).At Begin equation(inside).

$$a = b \text{ At End equation(inside).} \tag{1}$$

After End equation(outside).

Before Begin verbatim(outside).Begin verbatim(inside):Some Code.

`\some \code`

`End verbatim(inside): Some Code.`

After End verbatim(outside).

## 3 Author commands

### 3.1 Definitions

#### 3.1.1 Macro definitions

path of PB

path of UF

path of UF

orange= orange= orange= orange

deftestone is defined . After undef, deftestone is undefined.

deftesttwo is defined . After csundef, deftesttwo is undefined.

macro:-jorange

#### 3.1.2 Arithmetic definitions

$2 + 4 * 8 = 34$

$3 + 5 * 7 = 38$

$4 + 6 * 8 = 52$

$1\text{pt} + 2\text{em} = 21.00003\text{pt}$

$3\text{pt} + 1\text{em} = 13.00002\text{pt}$

4pt + 0.5em = 9.0pt  
10pt plus 2pt minus 3pt = 10.0pt plus 2.0pt minus 3.0pt  
4pt minus 1pt = 4.0pt minus 1.0pt  
5mu = 5.0mu

### 3.2 Expansion control

full expansion: macro:-jfirst  
expand once: macro:-j “lvltwo  
csexpandonce: macro:-j “lvlone

### 3.3 Hook management

x; xAB; xABYZ.  
ABxYZ.  
xZ.  
pre-x.

### 3.4 Patching

patching: ok  
example patched here  
relax is not patchable  
begin is patchable  
first and second  
appending to paramacro: ok  
first and second. Post  
prepending to paramacro: ok  
Pre. first and second. Post

### 3.5 Boolean Flags

boolvar is false.  
set to true. boolvar is true.  
set to false. boolvar is false.  
set to true. boolvar is true.  
set to false. boolvar is false.  
ltxbool is false  
set to true. ltxbool is true  
set to false. ltxbool is false  
set to true. ltxbool is true  
set to false. ltxbool is false

### 3.6 Generic Tests

noise is not defined.  
begin is defined.  
relax is defined.  
relax is ifundef: true  
relax is ifcsundef: true  
nosuchmacro is not a macro  
relax is not a macro  
begin is a macro  
nobeginning is un defined.  
begin is defined.  
relax is not defparam  
begin is defparam  
apptocmd is defprotected  
ifdefprotected is defprotected  
relax is not defprotected  
begin is not defprotected  
prefix test begin: false  
prefix test noise: false  
prefix test newrobustcmd: true  
prefix test newrobustcmd: true  
ifcs!txprotect relax: false  
ifcs!txprotect my!txrobust: true  
ifdefempty myempty: true  
ifdefempty myrelax: false  
ifcsvoid myempty: true  
ifcsvoid myrelax: false  
ifcsvoid letrelax: true  
ifcsvoid begin: false  
ifdefequal myempty-myrelax: false  
ifdefequal letrelax-myrelax: false  
ifdefequal begin-begin: true  
ifdefequal myempty-myempty: true  
ifdefstring mymacro-ampersand: true  
ifdefstring myrelax-relax: true  
ifdefstring myempty-: true  
ifdefstring basic-basic: true  
ifcsstrequal basic-basic true  
ifcsstrequal relax-relax false  
ifcsstrequal myempty-relax false  
ifcsstrequal myempty-anotherempty true  
ifdefcounter relax: false  
ifdefcounter mycount: true  
ifdefcounter mycount, after set: true  
ifdefcounter latexcounter: false

ifdefcounter latexcounter, after step: false  
 ifdefcounter myskip: false  
 ifdefcounter mylen: false  
 ifdefcounter mydimen: false  
 ifltxcounter relax: false  
 ifltxcounter mycount: false  
 ifltxcounter latexcounter: true  
 ifdeflength relax: false  
 ifdeflength mycount: false  
 ifdeflength myskip: true  
 ifdeflength mylen: true  
 ifdeflength mydimen: false  
 ifdefdimen relax: false  
 ifdefdimen mycount: false  
 ifdefdimen myskip: false  
 ifdefdimen mylen: false  
 ifdefdimen mydimen: true  
 ifstrequal test 1 (false): false  
 ifstrequal test 2 (true): true  
 ifstrequal test 3 (true): true  
 ifstrequal test 4 (true): true  
 ifstrequal test 5 (false): false  
 ifstrempty test 1 (true): true  
 ifstrempty test 2 (false): false  
 ifstrempty test 3 (false): false  
 ifstrempty test 4 (false): false  
 ifblank test 1 (true): true  
 ifblank test 2 (false): false  
 ifblank test 3 (false): false  
 ifblank test 4 (true): true  
 notblank test 1 (false): false  
 notblank test 2 (true): true  
 notblank test 3 (true): true  
 notblank test 4 (false): false  
 ifnumcomp (false): false  
 ifnumcomp (true): true  
 ifnumcomp (false): false  
 ifnumcomp (true): true  
 ifnumcomp (true): true  
 ifboolexpr (false): false  
 ifboolexpr (true): true

### 3.7 List Processing

Itemize list:

- item1
- item2
- item3a, item3b
- item4

Poor man's list:

- \* item1
- \* item2
- \* item3a, item3b
- \* item4

Dolistloop itemize:

- itemA
- itemB
- itemC

Forlistloop itemize:

- itemA
- itemB
- itemC
- Total: 3 items

dolistloop search: item found!

### 3.8 Miscellaneous Tools

1995 = 1995

116 = 116

ifnumless (true): true