

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  
 cexpandonce: 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  
ifcsltxprotect relax: false  
ifcsltxprotect myltxrobust: true  
ifdefempty myempty: true  
ifdefempty myrelax: false

### 3.7 List Processing

### 3.8 Miscellaneous Tools