

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.

deftesttwo is undefined. After csgundef, deftesttwo is undefined.

macro:-jorange

#### 3.1.2 Arithmetic definitions

$2 + 4 * 8 = 34$

$3 + 5 * 7 = 38$

$4 + 6 * 8 = 52$

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

$3\text{pt} + 1\text{em} = 13.00002\text{pt}$   
 $4\text{pt} + 0.5\text{em} = 9.0\text{pt}$   
 $10\text{pt} \text{ plus } 2\text{pt} \text{ minus } 3\text{pt} = 10.0\text{pt} \text{ plus } 2.0\text{pt} \text{ minus } 3.0\text{pt}$   
 $4\text{pt} \text{ minus } 1\text{pt} = 4.0\text{pt} \text{ minus } 1.0\text{pt}$   
 $5\text{mu} = 5.0\text{mu}$

## 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

### 3.7 List Processing

### 3.8 Miscellaneous Tools