C99 Parser User's Guide rough and incomplete Matt Wette

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1 Introduction

This is a manual for ...

Note on CPP replacement text: IIRC, C99 will remove comments from CPP statements before processing. I preserve this and remove inside the CPP parser.

1.0.1 Include Helpers

```
The C99 parsers can use "include helpers". This allows files to be parsed without reading full include files. The user provides typenames (types defined using typedef) and defines. The syntax for the include-helper optional argument to the parsers is (define my-inc-helper '(("foo.h" "foo_t" "ABC=123" "SUM(X,Y)=((X)+(Y))") ("bar.h" "bar_t" "DEF=456" "MAX(X,Y)=((X)>(Y)?(X):(Y))")) The C99 parser and xparser modules export c99-std-help.
```

1.1 Misc Items

The special symbol C99_ANY can be used for symbols which you don't want to define. In the parser will handle this as XXX

2 The Unit Parser

```
TALK ABOUT c99-std-help

parse-c99 [#:cpp-defs def-a-list] [#:inc-dirs dir-list] [#:mode ('code| 'file)] [#:debug bool]

This needs to be explained in some detail.

Default mode is 'code.

(with-input-from-file "abc.c"
(parse-c #:cpp-defs '("ABC=123"))

#:inc-dirs (append '("./incs") c99-std-dict)

#:inc-help '(("myinc.h" "foo_t" "bar_t"))

#:mode 'file))
```

Options are as follows

name $mode \Rightarrow \#t \mid \#f$

[xdef?]

Given string name and mode indicate whether the parser should expand using CPP defines. The default is (lambda(name mode) (eqv? mode 'code)).

3 Expression Parser

stuff

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