

# Harvest C

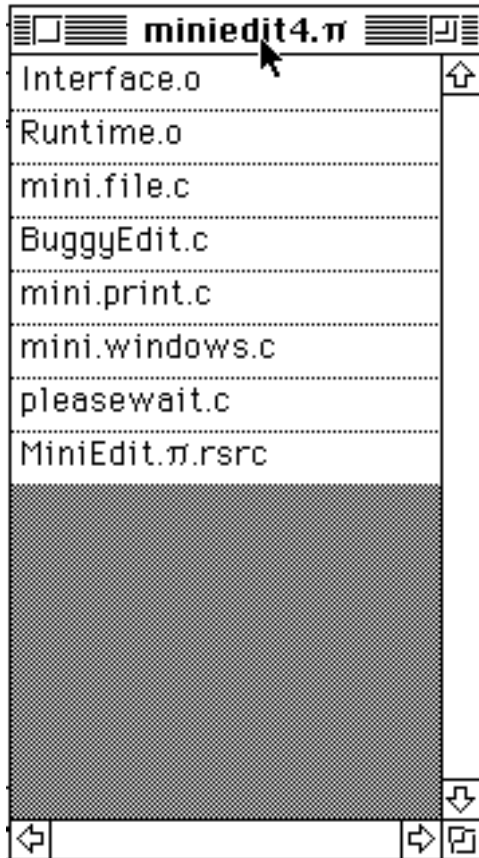


Eric W. Sink  
Spyglass, Inc.  
e-sink@uiuc.edu

# What is Harvest C anyway ?

- ANSI C
- MPW C extensions
- MPW compatible (not a tool)
- Integrated linker
- THINK-ish interface
- Options, flexible warnings
- Works with outside editors
  - Alpha, ResEdit
- Shell
- GNU GPL

# What's it look like ?



ON Dead code  
OFF Implicit decl :  
OFF Re#definition :  
ON Possible nested comment  
ON goto statement found  
ON Multiple function returns  
ON Empty compound statement  
ON Missing function return type - default to int  
ON Trigraph found  
OFF pascal keyword found  
ON Semicolon after function body

☒ **Warning ON**

☐ All ON  
☐ All OFF  
☒ Individually set

Ok

# History

- Sun 3 (ecc -> amiga2sun -> cc)
  - Compiled self, GNU Chess, enquire
  - Coded lots of Mac code under UNIX
- Brought to Mac
  - Wrote linker, etc... Changed name
- Release 1.0, October 1991
  - Really Buggy (tm)
- Release 1.2, June 1992

# Why a free C compiler ?

- Alternative to commercial tools
- For the fun of it
- To learn something
- Source code

# What is Harvest C<sub>NOT</sub> ?

- Shareware
- Public domain
- Heavy optimizer
- C++
- Ultra robust
- Fast
- Source debugger support
- Integrated editor

**NOT!**

# Alpha

- Shareware
- Pete Keleher([pete@rice.edu](mailto:pete@rice.edu))
- Slick, programmer's editor
- Tcl scripting
- Interfaces to Harvest C
- Version 5.0 coming RSN
- FTP [titan.rice.edu](ftp://titan.rice.edu)



# Tool Command Language

- John Ousterhout
- Full scripting language
  - Loops, conditionals, procs, etc...
- Portable to other platforms
- Free and easy to integrate
- Non-standard (not AppleScript)
- `comp.lang.tcl`
- FTP `sprite.berkeley.edu`
- Mac port (mailing list)

# Tcl Shell

- Features cd, mv, rm, globbing...
- Mac extensions (listpick, ticks...)
- Harvest C extensions (newProject...)
- Currently no support for outside “tools”

# GCC 2.1

- Integrated app
  - Harvest C's linker/object files
  - GCC's optimizer, C++, etc...
- TopSoft team
- Stan Shebs (Apple Computer)

# Creeping featuritis

- AppleScript
- MacApp compatibility
- Shell (tools, etc...)

“I want to help...”

- TopSoft team
- [tc-request@ugcs.caltech.edu](mailto:tc-request@ugcs.caltech.edu)

# Questions ?

How to contact the author:

Eric W. Sink

Spyglass, Inc.

701 Devonshire Drive, C-17

Champaign, IL 61820

[e-sink@uiuc.edu](mailto:e-sink@uiuc.edu)