Information about PManager

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Information about PManager

1.1 PManager

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              PManager v2.6 (28 April 1999)

  This program is freeware


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               Contact:
  acheresh@ic.ru (Andrei Chereshnev)

  Support Page:
  http://www.geocities.com/SiliconValley/Program/1538/pmanager.html
```

1.2 Program Introduction

```
PManager is a program which helps you manage C projects. It uses
Listtree custom class for hierarchical appearance, like in StormC. You
```

needn't any project file, just run PManager with path name and it will
scan directory for files. Edit config file to use your C environment,
SAS/C default.

Features:

  – Management of multiple projects.
  – Configurable contents of project sections.
  – "Message" window for compiler output (Message Browser).
  – Use "mkmk" utility for auto "makefile" creation. (SAS/C)
  – Configurable "Tools" menu for using external tools (profiler,grep,...).
  – Support of GoldED and SAS/C SE text editors (others through "scmsg"
    utility).
  – GUI for SAS/C "grep" utility.
  – Snapshot/UnSnapshot all current open projects and open/close sections.

    And others...

1.3 System requirements

Required:

  – MUI version 3.7 or higher.

  – "C" compiler.

Recommended:

  – SAS/C 6.xx and GoldED.

  – "wbstart.library" (included).

                    This application uses

                  MUI – MagicUserInterface

            (c) Copyright 1992–97 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With
the aid of a preferences program, the user of an application has the
ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing
lots of examples and more information about registration please look for
a file called "muiXXusr.lha" (XX means the latest version number) on
your local bulletin boards or on public domain disks.

        If you want to register directly, feel free to send

                    DM 30.– or US$ 20.–

```
                                 to

                          Stefan Stuntz
                     Eduard-Spranger-Straße 7
                          80935 München
                             GERMANY



             Support and online registration is available at

                         http://www.sasg.com/
```

1.4 Installation

```
                  Installation
```

Double-click on the install icon. Follow the prompts. If you not use
SAS/C compiler go to the
                  Configuration
                     .

If you update previous PManager versions, installer will save "old"
config files with ".bak" extension.

1.5 Configuration

"PManager.config" file

```
------- SAS/C default -----------
edit     = FROM_SCMSG
compile  = sc
make     = smake
build    = smake -u
debug    = sc:c/cpr -w
makefile = mkmk force target
options  = scopts
run_out  = CON:0/50//130/PManager/CLOSE/AUTO/WAIT
------- SAS/C default -----------
```

Edit "PManager.config" file to use your editor, compiler etc.. By
default it is SAS/C environment. When need it, file name from the
project will be added by PManager to the end of the lines: "compile",
"debug", "makefile". For example "sc test.c", "mkmk target test", "cpr
test".

"make","build" and "options" are tools that have no args(from PManager).

"edit"   - FROM_SCMSG : read editor configuration from the "scmsg"
             utility options. If you haven't SAS/C compiler this line
             should look like this:

```
                    "edit= your_editor" (example: "edit= ed").

"compile"  - usually frontend to compiler.
"make"     - "make" utility (make, cmake, ...)
"build"    - "make" utility but with "build key".
"debug"    - debugger you want to use.
"makefile" - "mkmk" is a SAS/C tool  which  makes  developing one target
             projects  easy (no  need  to  edit makefile).

"options"  - utilities like "scopts" help to edit  many  config  options
              for CLI compiler(include directories, defines, data & code
              models, debug info, cpu, optimizer and others) and linker
             (libs & objects to add) and save them to locale options file.

"run_out"  - console output/input from tools and project's target.

"PManager.sections" file

In this file you can find all sections of the project recognized by
PManager. You can add/delete patterns to the sections or delete
sections. Don't change sections names and blank lines between sections,
don't change "Others" section!
```

1.6 How to use

```
Starting program

PManager can be running from CLI or Workbench.

Starting from CLI:

"PManager [dir] ... "

If you supply PManager with dir names, it will open windows with
contents of that dirs. Example:

"PManager work:projects/hello_world!"

If this project directory contains source files, makefile, etc. the
window will list them in correspondent sections, if "hello_world!" is
empty you can start creating this project. Running PManager without
directory names will popup requester telling you to select project
directory.

Starting from Workbench:

PManager will popup requester, telling you to select project directory.

Starting new project

Lets create "hello_world!" project:

Start PManager, in popup requester choose directory where you want to
create "hello_world!" directory, OK. Then, select "Create Dir..." from
'Project' menu and in open requester enter "hello_world!". Select "New
```

File..." and enter "hello_world.c". The editor window will be open with "hello_world.c" file. Write:

```
#include <stdio.h>
#include <stdlib.h>

void main()
{
    puts("Hello, World!");
}
```

Save file. Now, you have section – "Sources" with "hello_world.c" file. Then, if you have SAS/C, just select "Make All..." in 'Compile' menu and in open requester enter target name – "hello_world!".

If you haven't SAS/C, you need to create "makefile", by selecting "New File...".

The making progress will be shown in the "Message" window. At the end, press "Run" button to execute target.

"Snapshot" option

If you want to work with currently open projects next time, you can "Snapshot" all of them at once – select "Snapshot" option ('Project' menu) in one of the projects windows.

"Run..." option

Select this option to execute project's target. In the Run window you can also configure target start/debug: from CLI (with arguments) or Workbench.

"Message" window

This window list all compiler output. If making/building was successful the Run and Debug buttons are enable.

To use SAS/C Message Browser capabilities of the "Message" window, you need to choose "Options" from 'Compile' menu, and in "Message Options..." select "NoErrorRexx", "ErrorConsole", "NoErrorSource".

Double-click or press Enter on the line with error/warning message to invoke editor.

"Generate makefile..." option (SAS/C)

When you create/add/delete source or header files in the project directory, you will need to (Re)"Generate makefile...".

If you want to change target name: delete "old" target file, then choose "Generate makefile..." and enter new target name.

GST – Global Symbol Table (SAS/C)

GST – is a precompiled headers file. PManager helps to manage SAS/C "all.gst" file. Choose "Options", "Compiler Options..." in "GST" string

```
enter: "include:all.gst". Choose "Generate makefile..." to clean up
"smakefile".

'Tools' menu options:

 - "Edit_AllGST" will open editor window with "all.c" file. You can add
   new headers to precompile (for example: #include <libraries/mui.h>).
 - "Make_AllGST" will compile "all.c" file to "include:all.gst".

You can use this global "include:all.gst" file for your projects,
instead locale GST files.

Adding Libraries and Objects (SAS/C)

If you need to include link libraries(.lib) and objects(.o) to the
project, choose "Add Library(s)..." from 'Project' menu. In open
requester select files. Files will appear in the "Libraries" project
section.
```

1.7 Menus

```
                Project Windows

Project Menu

New...
open new project window.

Create Dir...
create & open new project directory.

Open...
open project.

Update
update list of the project files.

New File...
create & edit new file.

Edit...
edit active project file, you can also double click on the filename.

Delete File
delete active project file.

Add Library... (SAS/C)
add link libraries and objects to the project.

Snapshot
save all currently open projects and open/close sections to
"PManager.prefs" file.

UnSnapshot
delete "PManager.prefs" file.
```

```
Quit All.
close all open windows.


Compile Menu


Compile...
compile active file.


Make All...
make current project.


Build All...
build current project.


Run...
open window with target name, you can also run by double clicking on
target. Select "CLI" or "WB" to run/debug from CLI or Workbench.


Debug...
debug target (from Workbench if you choosed "WB" in the Run window).


Debug Info (SAS/C)
control creation debugging information for the target.


Options...
compiler options.


Generate makefile... (SAS/C)
automaticaly generate "smakefile" file.


Window Menu


Message Browser
activate "Message" window.



               Tools Menu
               Message Windows


Edit Menu (SAS/C)


Next Error
move to the next error in active "Message" window.


Previous Error
move to the previous error in active "Message" window.
```

1.8 Tools menu

```
"PManager.tools" file

File contains all options of this menu. Lines format:
```

```
  ToolName program_to_execute [options]

Options:
  program options.
  %f - active file name from project.
  %d - active project directory.
  %e - contents of Run window (executable + args).

Example:
  MultiView multiview %f
```

Blank line in the file is a bar in menu. You can, of course, add/delete tools.

"Find..." option

This option open "grep_gui" window. You can enter regular expression (pattern) and directory (files) where you want to search. Select "Open..." to change search directory. For details see SAS/C documentation - grep utility.

1.9 History

```
v2.6:
      - Asynchronous Make/Build projects.
      - Process messages.
      - Misc bugfixes.
v2.5b:
      - More intelligent versions update process.
      - Improved error messages handling. (SAS/C)
      - New "Edit" menu in Message window. (SAS/C)
      - Bugfixed AppWindow and AppIcon services.
      - Misc minor improvements.
v2.4:
      - Installer script for installation and update.
      - "Message" window for compiler output, with "Run", "Debug" and
        message browser capabilities.
      - Extensive support of GoldEd and SAS/C SE text editors (others
        through "scmsg" utility).
      - Eliminated "Make/Build All Hierarchical" and "Make GST file"
        menu options, see in docs "How to use" - "GST".
      - Misc minor bugfixes and improvements.
v2.3:
      - Now you can run and debug project executable from Workbench (need
        wbstart.library).
      - "Update" list of the project files.
      - Misc minor improvements and bugfixes.
v2.2:
      - GUI for SAS/C "GREP" utility, see in docs: "Installation" and
        "Tools menu".
      - Bugfixed: serious bugs in "Add Library" option.
v2.11:
      - Bugfixed: crashed when project has many (up to 200) files.
      - Bugfixed: problem with adding GST file creation lines to
        "smakefile" (when project has many headers).
```

```
                – Window refresh speed improved.
                – Other improvements.
    v2.1:
                – New menu option "Add Library" for adding libraries and objects
                  to the project. (SAS/C)
                – IMPORTANT: new section "Libraries", see "PManager.sections" file!
                – New option "Debug Info" for controlling creation debugging
                  information. (SAS/C)
                – Bugfixed: didn't read arguments from WB.
                – New in docs: "Installation"; "How to use" – "Adding Libraries and
                  Objects", "Make Hierarchical"; "Menus" section.
                – Misc minor bugfixes.
                – Many internal improvements.
    v2.0:
                – PManager can be running from Workbench.
                – Installation scripts.
                – PManager automaticaly manage GST file creation.
                – Environment for use SAS/C "scmsg" with GoldEd.
                – "Output Wait" menu option, helps to see error messages that
                  message browser can't show.
                – Recognize "a.out" file as executable.
                – New in docs: "Installation", "How to use" – starting program,
                  GST, Menus.
                – Misc internal improvements.


    v1.4:
                – "Make/Build All Hierarchical" options for multi–directories
                  project.
                – Now, "Run" window will show only executables – files without
                  extension and .exe files.
                – New in docs: FAQ section, in "How to use" section:
                  "Make Hierarchical", "Snapshot", "Generate makefile", "GST",
                  "Menus"– Run option.
                – "PManager.tools" file changed.
                – Bugfixed: "Delete File" sometimes didn't work, now this option
                  also delete .lnk file.
                – Bugfixed: editor didn't start to edit "new file" when the
                  correspondent section close.
                – Misc minor improvements.
                – Misc bugfixes.
    v1.31:
                – Bugfixed: after refresh(rescan) of the project window contents,
                  all  sections were open/close like  before last snapshot
                  command.
                – The active object of the project window will now saving.
                – New "Open/Close all sections" options.
    v1.3b:
                – Completely rewritten main classes.
                – Configurable contents of project sections(PManager.sections
                  file).
                – Configurable "Tools" menu for using external tools(profiler,etc)
                  (PManager.tools file)
                – "Snapshot" will now also save all projects open/close sections,
                  shortcut – "S".
                – Contents of Run window will now also save  when you reopen
                  project(refresh).
                – Bugfixed: more than once open project window.
```

```
               - Bugfixed: at startup PManager stay in memory when there are
                 no open projects windows.
               - Improved docs.
v1.2:
               - New "Run" and "Debug" buttons in Run window.
               - Asynch Run windows.
               - New "Message Browser" option (sas/c).
               - Requesters for "New File" and "Delete File" options.
               - Arexx script (edit_file.ged) for use PManager with GoldEd v3 and
                 v4.(it will run GOLDED:ED when GoldEd's port is not open)
               - Snapshot/UnSnapshot current open projects (PManager.prefs file).
               - If compiling is ok and "Make GST file" check on, then
                 "turn off make GST?" will pop up (sas/c).
               - If contents of Run window not empty(you have target name) then
                 "Generate makefile" will be without requester.
               - Contents of Run window will now saving.
               - "Compile" will now with busy pointer.
               - Recognized: read.me, #?.cxx, #?.cc, #?.exe .
               - Improved docs.
               - Misc minor improvements.
               - Misc minor bugfixes.
v1.01b:
               - Bugfixes in unlocking code.
               - Misc minor bugfixes.
v1.00b:
               - Initial release.
```

1.10 Copyrights

```
The program PManager is copyright © 1998-1999 by Andrei Chereshnev.
The program GREP_GUI is copyright © 1998-1999 by Andrei Chereshnev.

All rights reserved.

PManager is freeware. This program may be freely distributed as long as:
 - the executables and documentation remain unchanged and are included
   in the distribution.
 - no other charge is made than to cover time and copying costs.

WBStart 2.2
     Copyright (C) 1991-1996 Stefan Becker
     On Aminet under util/libs.
MUI
     Copyright (C) 1993-1997 Stefan Stuntz
     World Wide Web home page: http://www.sasg.com/.
```

1.11 Disclamer

```
  I CANNOT BEEN MADE RESPONSIBLE FOR ANY PROBLEM WHICH OCCURES
 USING THIS PROGRAM. THIS AFFECTS ALL KINDS OF PROBLEMS. YOU
          ARE USING THIS PROGRAM AT YOUR OWN RISK.
```