AJAX Attribute Manager Documentation

Table of contents

AJAX Attribute Manager

Version 3.6.0. by raiwa - Copyright (c) Rainer Schmied - info@oscaddons.com - www.oscaddons.com

AJAX Attribute Manager

Version 3.6.0. Phoenix

by @raiwa
info@oscaddons.com
www.oscaddons.com

What it does:

The idea of this contribution is to make the administration of product options, option values and attributes much quicker and easier.

It uses a technology known as AJAX (Asynchronous JavaScript And XML). This enables us to do is make page sub-reqests without refreshing a page.
In this case, it enables us to make a attribute manager that sits on the product addition page. From which, you can do everything (ish - see notes) that the product attributes page does but in a much more convenient and tidy way.

System Requirements

All the normal Phoenix requirements, plus ...

- XMLHTTP Complient Browser (e.g. IE, Mozilla, Chome)
- Javascript **Enabled** in your Browser
- Phoenix 1.0.8.5.+
- Tested with Phoenix 1.0.8.21
- PHP 7.0 to 8.2

Features

- Easily and instantly add and remove Options and Option Values. No page refreshes required
- Easily add and remove attributes to a product on the product addition page. No page refreshes required
- Optional Instant Database Update for product attributes. No page refreshes required
- Attribute "templates" - Predefined "Attribute Sets" with quick load
- Downloads Support
- Multilingual support

Optional Features

- More Product Weight (https://phoenixcart.org/forum/app.php/addons/free_addon/attributes_weight)
- Options Images (https://phoenixcart.org/forum/app.php/addons/free_addon/options_images)
- Wholesale Lite (https://phoenixcart.org/forum/app.php/addons/free_addon/wholesale_lite)
- QtPro (https://phoenixcart.org/forum/app.php/addons/free_addon/qtpro)
- Option Types (https://phoenixcart.org/forum/app.php/addons/free_addon/option_types)

Future Additions (to-do list)

- Deletion and Rename of Options and Values

Notes

- No Deletion of Options or Option Values (use standard Attribute Manager)
- Options and Settings are in: Admin: Configuration: Ajax Attribute Manager

Support

- [Support Thread](#)

Install Instructions

Note: if you are upgrading from a previous version you must OVERWRITE all files in the attributeManager directory. The best way is to delete the whole folder then add the new one. If you were using attributes/options sort order from previous versions, read and follow the detailed Update Instructions.

1) Copy the admin/attribute Manager Directory and the includes/hooks/admin directory and all of it's contents into your store directory.
(Your file structure should look like this /admin/attributeManager/)
and:
includes/hooks/admin/categories/ajaxAttribManager.php
includes/hooks/admin/siteWide/ajaxAttrManager.php

Product based Attributes Values sort order support

If you wish to use a product based sort order for Attribute values like in older Attributes Manager-Sort order, you need to modify the queries in the product info options attributes modules.

Change in includes/modules/pi/product_info/pi_options_attributes.php line 68:
order by pov.sort_order
to:
order by pa.sort_order

or

Change in includes/modules/content/product_info/cm_pi_options_attributes.php line 44:
order by pov.sort_order
to:
order by pa.sort_order

Finished !

---> Go and add or edit a product and you should see the new attribute manager tab.

****

Additonal Notes for other contribution compatability

(Only needed if you have any of the following contributions installed)

- Instructions for More Product Weight plugin

1) If you haven't installed the **More Product Weight plugin** contrib then you should install that one first:
https://phoenixcart.org/forum/app.php/addons/free_addon/attributes_weight
A Phoenix version is not yet available. You'll need to add the shop side support on your own. A Phoenix version is in preparation.

2) Go to: Admin: Configuration: Ajax Attribute Manager: Use More Product Weight: set to "true"

NOTE:
- Options weight are displayed both, Products Options Weight and Options Value Weight
- Only Products Options Weight can be added, edited or deleted in Ajax Attribute Manager

- Instructions for Options Images plugin (version 1.6.1 or higher required)

1) If you haven't installed the **Options Images plugin** contrib then you should install that one first:
https://phoenixcart.org/forum/app.php/addons/free_addon/options_images

2) Go to: Admin: Configuration: Ajax Attribute Manager: Use Options Images: set to "true"

NOTE:
- Options images are displayed both, Products Options Images and Options Value Images
- Only Products Options Images can be added, edited or deleted in Ajax Attribute Manager
- No image file uploads, images need to be uploaded apart (via ftp or the core attributes page) and image filenames need to be introduced like for download files.

- Instructions for Wholesale Lite plugin (version 4.6.0 or higher required)

1) If you haven't installed the **Wholesale Lite** contrib then you should install that one first:

https://phoenixcart.org/forum/app.php/addons/free_addon/wholesale_lite

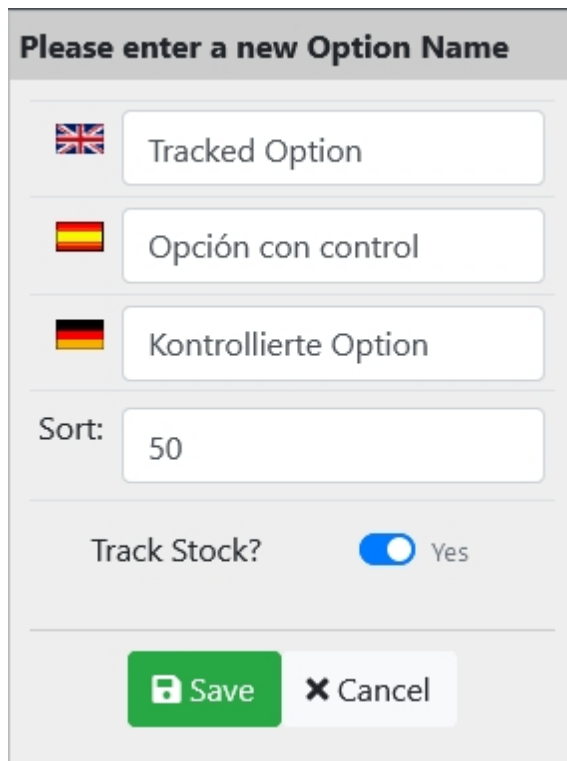2) Go to: Admin: Configuration: Ajax Attribute Manager: Use Wholesale Lite: set to "true"

- Instructions for QtPro plugin (version 7.4.10 or higher required)

1) If you haven't installed the **QtPro** contrib then you should install that one first:
https://phoenixcart.org/forum/app.php/addons/free_addon/qtpro

2) Go to: Admin: Configuration: Ajax Attribute Manager: Use QtPro: set to "true"

Note that only the option "Track Stock" is added when a new option is created with Ajax Attribute Manager. Stock control and adjustments are don in the QtPro tab.

- Instructions for Option Types plugin (version 1.0.0 Phoenixcart or higher required)

1) If you haven't installed the **Option Type** contribution then you should install that one first:
https://phoenixcart.org/forum/app.php/addons/free_addon/option_types

2) Go to: Admin: Configuration: Ajax Attribute Manager: Use Option Types: set to "true"

Note that for Text, Textarea and File Options, "Customer-Input" value will be auto assigned.

Please enter a new Option Name

🇬🇧	Textarea
🇪🇸	Area de texto
🇩🇪	Textfeld

Sort: 50

Option Type: TextArea ⌄

Length: 128

Comment

🇬🇧	Testcomment
🇪🇸	Comentario de prueba
🇩🇪	Testkommentar

💾 Save   ✖ Cancel

****

That's All

AJAX Attribute Manager

Version 3.6.0 by raiwa - Copyright (c) Rainer Schmied - info@oscaddons.com - www.oscaddons.com

AJAX Attribute Manager

Version 3.6.0. Phoenix

by @raiwa

info@oscaddons.com
www.oscaddons.com

Change-Log:

V1 beta - First Release

v1.1 beta
  --- General Bug fix release ---
  * Slash problem fixed - thanks dynamoeffects
  * install documentation updated
  * Simplification of stop direct access logic - thanks tbruelan
  * rework of core page actions
  * moved configuration into its own class to aid with future changes
  * fixed session variable not being reset when new product addition is canceled

v1.2 beta
  --- General Bug Fix release ---
  * fixed a javascript error when a option or option value was removed that contained a '

v1.3 beta
  --- General Bug Fix release ---
  * forgot to change one of the requires for the change of configuration

v1.4 beta
  * Change of Copyright Notice as requested by the OSCommerce Team

v1.5 beta
  --- General Bug Fix release ---
  * Compleatly rewrote all AJAX request javascript.
    It was using prototype.js but that was conflicting with the html area contribution.
    It should also speed up page load time. Much less code.
  * Fixed the attributes not being entered into the db on a new product
  * Fixed the attributes not being linked to the product when it was a new product

v1.6 beta
  --- New features release ---
  * Changed it so that only indiviual sections get updated each time an action is performed
  * Fixed a small problem with one of the javascript prompts if they contained a '
  * Fixed non-latin charicters showing up as question marks
  * changed all the prompts to make them more flexable
  * added Multilingual support
  * added attribute templates. With...
    * quick load
    * easy save
    * easy rename
    * delete

v1.7 beta
 * very small bug fix todo with the not yet implemented sort order feature

v1.8 beta
 * renamed the DB class and every call to it to amDB to try and avoid any naming conflicts (with pear for instacnce)

v1.9 beta
 * fixed a problem with IE capturing the text field and not giving it back!

v2.2 beta
 * Added support for product attributes sort order as well as pointers on how to add other fields

v2.3 beta
 * Sort Order functionality is now switchable and easily configurable. Ground work for QT Pro Plugin

v2.3b beta
 * Fixed a couple of bugs when not using the sort order plugin

v2.4b beta
Bug solved:
 * Malfunctioning of loading a attribute template in a new product.
New:
 * Saving and loading sorting of attributes

v2.5b beta
 * Malfunctioning of loading a attribute template in a new product.
 * Malfunctioning of saving attributes to new products.

v2.5.1b beta
 * Fixed: after modifying sort order field IE would lock

v2.5.2b beta
 * Instructions updated.

v2.5.3 beta
 * Fixed: When you dont have any Attributes, the AJAX Attribute Manager will NOT add the first Attribute to
the product.

v2.6
 * Fixed: Installation + instructions of sort order plugin.

v2.7
 * Added Ability to Translate and and load translations + translated to Hebrew.

v2.8 beta
 * Fixed: Prefix and Price update when adding new product.
 * Fixed: Paths problem (on some systems).
 * Fixed: SQL Query about adding price/prefix in the templates.
 * Fixed: Default values when adding new option values thanks to pbor1234.
 * Added: french language thanks to zardhoz.

v2.8.1 beta
 * Fixed: No need to run extra MySQL query for am_attributes_to_templates.
 * Fixed: Updating attributes for new products now works the same way like updating attributes for existing
products.
 * Fixed: Deleting attributes from new products now works.
 * Fixed: Now adding "&" sign in product option names and product option values is possible.
 * Added: Automated prefix when adding prices.
 * Added: Brazilian Portuguese language thanks to Valmy Gomes.

v2.8.2 beta
 * Fixed: Problems when you have " in the option name or value name.
 * Fixed: Useless reordering the product options values when saving to, loading from template.
 * Fixed: All attribute options are ordered by name.
 * Fixed: All attribute values are ordered by the date they were added to a product/saved to template.
 * Added: Two buttons to sort the attribute list.
 * Added: Attribute price autoselect (only when price is "0.0000").
 * Added: Some html optimization.

v2.83 - 2.8.4 bety
* Added: Every Option can now have an Download option

* Added: SortOrder implemented.

v2.8.5
* Fixed: On a new product Page, the attributeManger with the Sortorder would not work properly (yet) -> attributeManagerAtomic.class.php not done yet. I disabled this functionality, so you first have to save the product bevore adding Product Options

v2.8.6
* Changed a often reported Error in AttributeManagerConfig.class
* added the new Spanish Translation

v2.8.7
* Added support for More Product Weight plugin (default is turned off)
* Rework of some QT Pro code to fully support QT Pro (see "Release Notes 2.8.7.txt" file)
* Russian translation added

v2.8.8 by Gilo_m
* Fixed: Use of short tags <? and <?= causing the crash using
* Added in Hungarian language file into main zip

v2.8.9 BY Valmy Gomes (LegalLoja.com.br)

*Fixed the problem with QTPro in javascript/attributeManager.js

*update the language portugues.php and add the lines above:

>   define('AM_AJAX_MOVES_OPTION_UP', 'Mover opção para cima');
>   define('AM_AJAX_MOVES_OPTION_DOWN', 'Mover opção para baixo');

v2.8.9.3 by lildog
        * added tooltip to sort buttons

v2.8.10 by modem2.0
- Fixed all <? echo by <?php echo
- Fixed all <?= by <?php echo
- Improved portuguese language.
- Disable by default the support to Use More Product Weight and Attributes Sort Order

v2.8.11 by surfalot mtholforty [at] surfalot [dot] com
+ Updated mysql function to msqli for forward compatibility (should maintain backward also)
+ removed PHP5 deprecated idiom =& new in attributeManagerGeneralFunctions.inc.php
+ Fixed PHP Strict Standards: Non-static method amDB::xxxxx() caused on PHP5.4.
+ Fixed "Illegal string offset 'id' & 'text' in html_output.php" caused by malformed array passed to tep_draw_pull_down_menu in attributeManagerPrompts.inc.php
+ Fixed more short <? PHP tags, extra commas, and missing semi-colons
+ Sync all language files and converted all files to UTF-8
+ Added some missing changelog stuff
+ Included required GNU License Statement

v2.8.12 by surfalot mtholforty [at] surfalot [dot] com
+ Fixed Call to undefined function amGetSesssionVariable() introduced in v2.8.11
+ Semicolon missing in: \admin\attributeManager\javascript\requester.js
+ Added UTF8 Character Encoding to the created tables.
+ Fixed PHP Strict Standards: Only variables should be passed by reference in attributeManagerGeneralFunctions.inc.php caused on PHP5.4.
+ Various input scrubbing issues cleaned up. (I know, it's behind a login and not hugely important, but I sleep better)
+ Fixed a couple more PHP5 deprecated pass by reference issues

v2.8.13 by Phocea
+ Added plugin option for Attribute Product Codes to the PHP5 version of this contribution

v2.8.14 by surfalot mtholforty [at] surfalot [dot] com
+ Turned off QT Pro plugin that was left enabled in Phocea's version
+ Fixed 1062 - Duplicate entry '1-4' for key 'PRIMARY'
        insert into products_options_values (products_options_values_id, ...
        in shops with osC2.2ms2 & using mysql_ PHP functions

v2.9 by @raiwa info@oscaddons.com www.oscaddons.com
+ updated for 2.3.4 BS Community version
  - hardcoded filenames, database table names and paths
+ PHP 7+ compatibility
  - changed class constructor names to "__construct", added empty class constructor function to
  - empty class constructor added to attributeManager.class.php
  - mysql_get_server_info updated to mysqli_get_server_info
+ updated instructions for latest 2.3.4BS EDGE (at June 20017)
+ screenshot with all additional suported contributions added to instructions
+ included modified files updated to latest 2.3.4BS EDGE (at June 20017)
+ support added for Options Images BS (latest version 1.5) https://apps.oscommerce.com/ijmp8&options-images-bs
+ layout clean up for additional add-ons (Code) and labels added
+ completed translation for spanish and german
+ old PHP4 versions removed

v2.9.1 by @raiwa info@oscaddons.com www.oscaddons.com
+ switched all additional add-on support to false in config file:
admin/attributeManager/includes/classes/attributeManagerConfig.class.php. Thanks to @altoid and
@PiLLaO
+ Fixed sql query for QTPro when options images are not switched on. Thanks to @PiLLaO

v2.9.2 by @raiwa info@oscaddons.com www.oscaddons.com
+ updated for PHP 7.2 compatibility. Changed deprecated while...each loops to foreach loops. Fixed
undefined errors.
+ Added sort order support for 2.3.4.1 CE Frozen modular Product Info page.

v2.9.3 by @raiwa info@oscaddons.com www.oscaddons.com
+ Fixed undefined errors and other PHP 7.2 warning errors.

v2.9.4 by @raiwa info@oscaddons.com www.oscaddons.com
+ Fixed undefined errors and other PHP 7.2 warning errors.
+ Removed support for attribute products code contribution.
+ Fixed incompatibility with admin => Configuration => Sessions => Force Cookie Use => true.

v2.9.5 by @raiwa info@oscaddons.com www.oscaddons.com
+ Fixed accidentally removed code which broke the price update. Thanks to @John W
+ Fixed some other minor glitches and code cleanup.

v3.0.0 by @raiwa info@oscaddons.com www.oscaddons.com
+ Updated for Phoenix 1.0.x.x compatibility
+ Added code reference for Phoenix
+ Fixed some undefined notice errors.

v3.1.0 by @raiwa info@oscaddons.com www.oscaddons.com
+ Updated for Phoenix 1.0.3.x compatibility
+ hooked all modifications.
+ No core file changes any more.

v3.1.1 by @raiwa info@oscaddons.com www.oscaddons.com
+ fixed wrong css definition which caused all text in admin to show reduced. Thanks to @LeeFoster and @Omar_one for the report and testing

v3.2.0. by @raiwa info@oscaddons.com www.oscaddons.com
+ updated for Phoenix 1.0.5.9+ (jquery update and bootstrapped admin/categories.php)

v3.2.1. by @raiwa info@oscaddons.com www.oscaddons.com
+ removed deprecated SetFocus function call. Thanks to @PiLLaO

v3.3.0. by @raiwa info@oscaddons.com www.oscaddons.com
+ removed duplicated language definitions. Thanks to @kgtee
+ fixed unbalanced table columns. Thanks to @radhavallabh
+ added table titles.
+ updated to bootstrap design elements (buttons, tables etc).
+ replaced image icons by fontawesome icons.
+ removed deprecated css
+ removed deprecated image icons
+ replaced jquery with native javascript in admin hooks. Thanks to @PiLLaO
+ removed qtpro support. It's now available in it's own tab on the product edit page.
+ updated sort order support modifications in cm_pi_options_attributes.php

v3.3.1. by @raiwa info@oscaddons.com www.oscaddons.com
+ fixed notice errors for new product. Thanks to @jonwix for the report
+ removed obsolete script type declarations. Thanks to @radhavallabh for the report and testing
+ removed deprecated sql support.

v3.3.2. by @raiwa info@oscaddons.com www.oscaddons.com
+ added support for Phoenix 1.0.7.10 core sort order
+ removed optional product_options_sort_order support
+ added auto update script for product_options_sort_order to core sort order columns.
+ normalized spacing and indents.
+ updated custom database functions to use core functions.
+ modernized coding to match core standards

v3.3.3. by @raiwa info@oscaddons.com www.oscaddons.com
+ fixed bad encoding in russian language file. Thanks to @Fredi
+ fixed duplicated and removed unused definitions in language files. Thanks to @Dennis
+ modernized code to match actual core standards.

v3.3.4. by @raiwa info@oscaddons.com www.oscaddons.com
+ updated deprecated session functions for Phoenix 1.0.7.14. Thanks to @vmn

v3.3.5. by @raiwa info@oscaddons.com www.oscaddons.com
+ added install script for sort_order column in products_attributes table if missing. Thanks to @radhavallabh and @Patrick_R for the report
+ Added instructions to modify product info options attributes module's query to use product based attributes values sort order.

v3.4.0. by @raiwa info@oscaddons.com www.oscaddons.com
+ updated all code for Phoenix 1.0.8.4+ compatibility
+ moved configuration entries from attributeManagerConfig.class.php to Admin: Configuration DB entries
+ added support for Wholesale Lite. Thanks to @BrockleyJohn
+ removed unused and obsolete qtpro support code which was left over
+ removed Atomic updates

v3.4.1. by @raiwa info@oscaddons.com www.oscaddons.com
+ removed obsolete inclusion of deprecated attributeManagerUpdateAtomic.inc.php in admin/catalog hook. Thanks to @zeeshop for the report
+ Added version info to admin/catalog hook

+ corrected wrong update instructions

v3.4.2. by @raiwa info@oscaddons.com www.oscaddons.com
+ Fixed non working language buttons. Thanks to @Omar_one for the report and testing
+ Fixed sort_order update sql for updates from older versions. Thanks to @Omar_one for the report and testing
+removed ending "?>" in admin catalog hook. Thanks to @Omar_one for the report and testing

v3.5.0. by @raiwa info@oscaddons.com www.oscaddons.com
+ Fixed undefined notice and fatal runtime error which may appear when uncomplete options images db entries are used. Thanks to radhavallabh for the report and testing
+ Updated support for Phoenix Attributes Weight Addon
+ Tested with Phoenix 1.0.8.14

v3.5.1. by @raiwa info@oscaddons.com www.oscaddons.com
+ Updated "escape" to "encodeURI" in admin/attributeManager/javascript/attributeManager.js to fix special character encoding. Thanks to @GdNico for the report and suggested fix.

v3.5.2. by @raiwa info@oscaddons.com www.oscaddons.com
+ Fixed warning error when the first option is added to a product. Thanks to @radhavallabh for the report and testing.

v3.5.3. by @raiwa raiwa@phoenixcartaddons.com www.phoenixcartaddons.com
+ Fixed not saving templates. Tahnks to @m0fix for the report

v3.6.0 by @raiwa raiwa@phoenixcartaddons.com www.phoenixcartaddons.com
+ fixed requester erro message for new products. Thanks to @Denzel for the report and fix
+ updated and tested with Phoenix 1.0.8.21 and PHP 8.2
+ added support for QtPro
+ added support for Option Types

AJAX Attribute Manager

Version 3.6.0 by raiwa - Copyright (c) Rainer Schmied - info@oscaddons.com - www.oscaddons.com

AJAX Attribute Manager

Version 3.6.0. Phoenix

by @raiwa
raiwa@phoenixcartaddons.com
www.phoenixcartaddons.com

v3.6.0 by @raiwa raiwa@phoenixcartaddons.com www.phoenixcartaddons.com
+ fixed requester erro message for new products. Thanks to @Denzel for the report and fix
+ updated and tested with Phoenix 1.0.8.21 and PHP 8.2
+ added support for QtPro
+ added support for Option Types

Compatibility:

Phoenix Cart 1.0.8.5+
PHP: 7.0 - 8.2
Tested with Phoenix 1.0.8.21

Update Version 3.3.5/3.4.0/3.4.1/3.4.2/3.5.0/3.5.1/3.5.2/3.5.3 to Version 3.6.0:

1. Make sure you are at least on Phoenix 1.0.8.5:

2. upload and replace all files from the catalog (upload all) folder.
(no need to uninstall/reinstall)

3. Go to: admin -> catalog -> edit any product

4. Go to: admin -> configuration -> adjust settings for the additional contributions you are using

That's it!

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

AJAX Attribute Manager
Version 3.6.0 by raiwa - Copyright (c) Rainer Schmied - info@oscaddons.com - www.oscaddons.com

AJAX Attribute Manager

Uninstall

1) Uploads

Upload the file "uninstall/catalog/db_uninstall.php" to your store root directory.

2) type: www.mystore/db_uninstall.php
This will remove all AJAX Attribute Manager Configuration settings in:
Admin : Configuration : Ajax Attribute Manager
as well as the database tables "am_attributes_to_templates" and "am_templates".

Remove this file once you finished the uninstall process.

That's it!

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

GNU License

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, MA 02139, USA. Everyone is permitted to copy and distribute verbatim copies of this license document, but

changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY

KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS