

MAME - Compilingscript V2.3a

by Mucci

Logo created by JackC

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Introduction

have written this script for my own to compile MAME in an easy way. I'm doing that each day to have a fresh MAME executable with all the latest submitted changes. This documents describes how to install the compiling tools from MAMEdev and how to use my script for doing the hole compiling task. I have tested it as good as possible and using it on my own every day. But I can not guarantee that it runs all the time without problems nor that it is "bug-free". If you have suggestion or other comments please feel to send a mail to <u>mucci@mameguide.info</u>.

lease do NOT download this script from other locations than http://www.mameguide.info ;-)

here exists more compiling scripts at <u>http://www.mameguide.info</u> All scripts can be used in the same environment within the same folder structure. Each script uses their own folder for the source and for storing the compiled executables.

his script is written by me and is not from the official MAMEdev team. Please do not contact them when you have questions/comments/complains/ >> send ME a mail.



Chapter 1: Installing

ownload the MAMEdev compiling tools from their site

http://mamedev.com/tools/ (its not included in my zip-file).



Choose the right package to download:

- If you are on a x86 Windows you should choose the x86 zip-file
- If you are on a x64 Windows you should choose the x64 zip-file or the x86/x64 zip-file. I would suggest in that case that you download the x86/x64 package. With this you are able to compile also a x86 MAME executable.

have tested my script with all three packages. It should detect your OS version and let you compile only the version it does support.



We have downloaded, in our example, the x86/x64 package. Maybe it has been updated in the meantime on the server, download the file that is available on the web-page. My script does each time when you are updating the local source folder also looks for new tool updates as well and download/install them too.

Image: Image of the second	plication Tools Downloads Manage				
Pin to Quick Copy access Copy Paste	Move Copy to	New item *	Properties	Select all Select none	
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 ▶ Downloads ★ M Documents ★ ► Pictures ★ 					-
_MAMECompilin				www.ma	ameguide.info

Double click the file and when you see a warning click "run anyway" (Windows 10)





Note: If you are extracting the x86 package please note/check that this file has to be renamed from "sh.exe.old" to "sh.exe" after the extraction.

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E Pirtures 28.08.2015 22:15 Application 90 KB	- Pictures	sha384sum.exe	28.08.2015 22:15	Application	90 KB		

After double clicking the package-exe extract it to an empty folder.

7-Zip self-extracting archive		Х
Extract to:		
E:\Tools\MAMECompiling		
	Extract	Cancel
	www.m	ameguide.info

The extraction could takes some minutes

Elapsed time:	00:00:13	Total size:	153	37 M
Remaining time:	00:01:16	Speed:	17 N	IB/s
Files:	0	Processed:	22	3 M
Compression ratio:		Compressed size:		
Extracting				
msys64\mingw32\lib\python2 test_augassign.pyc	2.7\test\			
msys64\mingw32\ilb\python2 test_augassign.pyc	2.7test\		 	



We have now a folder called "msys64" in that folder you have chosen to extract. (When you are using the x86 package it is called "msys32").

📜 🛃 📜 🖛 msys64				- 0	×
File Home Share	View				~ 🥐
Pin to Quick Copy Paste access	Cut Image: Copy path Move Copy to* Paste shortcut to*	New folder	operties	ect all ect none ert selection	
Clipboard	Organize	New	Open	select	
$\leftarrow \rightarrow \checkmark \uparrow > D$	agonheart > DATA2 (E:) > Tools > MAMEComp	iling > msys64	v ₽	Search msys64	Q
🔁 Desktop 🛛 🖈 🔨	Name	Date modified	Туре	Size	
🜲 Downloads 🚿 🚽	dev	01.01.2016 21:18	File folder		
🛅 Documents 🖈	etc	16.02.2016 10:35	File folder		
🔚 Pictures 🛛 🖈	mingw32	02.01.2016 13:43	File folder		
📜 _MAMECompilin	mingw64	02.01.2016 09:18	File folder		
Dragonhaart	🧯 opt	19.06.2015 08:17	File folder		
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Desktop	📜 tmp	16.02.2016 10:35	File folder		
E Documents	usr	01.01.2016 21:17	File folder		
Downloads	var	01.01.2016 21:17	File folder		
🌗 Music	win32	16.02.2016 10:36	File folder		
🔚 Pictures	Salaria autorebase.bat	07.11.2014 10:46	Windows Batch File	1 KB	
📓 Videos	Subject Sector S	16.02.2016 09:43	Windows Batch File	2 KB	
SYSTEM (C:)	Subject Sector S	16.02.2016 09:42	Windows Batch File	2 KB	
Sector DATA1 (D:)	Sconemu.bat	16.02.2016 09:43	Windows Batch File	2 KB	
DATA2 (E:)	🧐 conemu-32.bat	16.02.2016 09:43	Windows Batch File	2 KB	
BD-ROM Drive (init.sh	16.02.2016 09:43	SH File	0 KB	
BD-ROM Drive (msys2.ico	26.04.2015 12:32	Icon	26 KB	
	win32con.bat	16.02.2016 09:43	Windows Batch File	1 KB	
	winszenv.bat	10.02.2010 09:43	windows batch File	I KB	
SACKUP2 (Y:)					
🔮 Network 🗸 🗸					_
19 items			www.ma	meguide.info	

For the first time you must run the "autorebase.bat". Double click that will set this "MSYS" environment depending on your install-folder.

>>>> Don't forget to start it!

📜 win32	16.02.2016 10:36	File folder	
🖲 autorebase.bat 🔫	07.11.2014 10:46	Windows Batch File	1 KB
🖲 buildtools.bat	16.02.2016 09:43	Windows Batch File	2 KB
🦫 buildtools-32.bat	16.02.2016 09:42	Windows Batch File	2 KB
💿 conemu.bat	16.02.2016 09:43	Windows Batch File	2 KB
🤏 conemu-32.bat	16.02.2016 09:43	Windows Batch File	2 KB
init.sh	16.02.2016 09:43	SH File	0 KB
M msys2.ico	26.04.2015 12:32	lcon	26 KB
🤏 win32con.bat	16.02.2016 09:43	Windows Batch File	1 KB
win32env.bat	16.02.2016 09:43	Windows Batch File	1 KB
		www.ma	meguid



In that folder is a file called "win32con.*bat*". Start it and it will open a shell. It creates some config-files and a home directory for the user you are using.



You can change this shell property (like colours, size and a lot more) within the menu "Settings".





I'm changing the size (width) of this windows (example) \rightarrow save setting

<pre>cmd Copying skeleton files. These files are for the users to personalise their m They will never be overwritten nor automatically upd './.bashrc' -> '/home/mucci//.bashrc' './.bash_logout' -> '/home/mucci//.bash_prof.</pre>	sys2 experience. ated.	- □ × Search 𝒫 🖬 • 🖬 • 🄮 🛄 ≡
'./.profile' >> '/home/mucci//.inputre' './.profile' >> '/home/mucci//.vinre' './.vimre' -> '/home/mucci//.vinre' [MINGW64] E:\Tools\MAMECompiling\msys64\src> [MINGW64] E:\Tools\MAMECompiling\msys64\s	IADATOR (Deg.) = Excling (a cm) If #F ? Storage: EVEN Storage: Totado MARECompiling(Imsyn64)opt(bin(Compiling(Imsyn64)opt	Inport
end.eve(64):32208	< 150610[64] 1/1 [www.mameguide.info +] NUM PRII: 135x43 (45,13) 25V 23136 100% //

On the MAMEdev webpage is an additional information that we need.

MAME Build Tools Introduction The MAME development environment for Windows consists of the GCC compiler (by way of MinGW), and the MSYS2 (POSIX/Unix compatability layer), plus various utilities such as Python and Git. It is available as a prepackaged installer, or can be assembled from upstream components. Source control is handled by github (https://github.com/mamedet/mame.git), so you'll need to check out a copy. Various modules are disabled by default, such as the MAME
Introduction The MAME development environment for Windows consists of the GCC compiler (by way of MinGW), and the MSYS2 (POSIX/Unix compatability layer), plus various utilities such as Python and Git. It is available as a prepackaged installer, or can be assembled from upstream components. Source control is handled by github (https://github.com/mamedev/mame.git), so you'll need to check out a copy. Various modules are disabled by default, such as the MAME
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Source control is handled by gilhub (https://github.com/mamedev/mame.git), so you'll need to check out a copy. Various modules are disabled by default, such as the MAME
interactive debugger, but can be enabled through arguments when building and may require additional MS+S2 packages to be installed.
Installation and building
Downloads
Windows 64-bit (x64) - [msys64-2016-02-16.exe Windows 32-bit (x66) - msys62-2016-02-16.exe Dual 32-bit/64-bit - msys64-32-2016-02-16.exe (If you have 64-bit Windows but wish to build for both 32-bit and 64-bit. To switch between different mingw versions use config92.bat and config94.bat)
Installation
If you are installing it in a location other than the default (c:\msys64 or c:\msys32), after you unpack double-click : autorebase.bat
To open a non-posix shell there are two batch files: win32env.bat for regular windows console, and win32con.bat for fancy looking conemu console.
Important thing is to setup your git environment first
git configglobal core.autocrlf true
And if you are contributor
git configglobal user.email youremail@something.com git configglobal user.name "Firstname Lastname"
Building
Then, to download the MAME source under your Msys2 user's homedir:
git clone https://github.com/mamedev/mame.git

9



First of all we must initialize "git" in our environment with the command:



git config --global core.autocrlf true

Now we copy/extract from the file "batch2.3a.zip" those 3 files into the "src" folder.

Image: Image						-
A Cut Copy path Paste Paste	Move Copy to to t	New item •	Properties	Select all Select none		
Clipboard	Organize	New	Open	Select		
$\leftarrow \rightarrow \cdot \uparrow$ > Dragonheart > D	ATA2 (E:) > Tools > MAMEComp	iling 🕨 msys64 🄌 src			v ♡	Search src
A Quick access	^	Date modified	Туре	Size		
🖕 Desktop 🖈 🛛 🚳 compile	-MAME.cmd	30.03.2016 21:14	Windows Com	mand 1	5 KB	
🐌 Downloads 🖈 📃 Notepad	12.exe	06.05.2011 00:00	Application	69	3 KB	
📜 Documents 🖈 📃 ReadMe	-CompilingscriptMAME2.3.pdf	21.02.2016 11:06	Adobe Acroba	t Docu 3 02	5 KB	
E Pictures	ಳೆ ಹಿಗೆ ಡಿ. ರೆ.					
_MAMECompilin						
DAT					www.man	eguide.info



We can now start the compile-script in the shell with the command

"compile-MAME.cmd"



The compile-script starts and checks if the MAME source folder "mame" is available or not. If it is not there it downloads the MAME source code from the online repository.







After some minutes (depending on your bandwidth) we have a folder "mame" with the source code. The script continues and shows us the main menu.



We have successfully installed the compiling-tool and downloaded the MAME source code. We close now the shell with the command "E" and with clicking the "X".







Open the "compile-MAME.cmd" with an editor.



In that section

e:\Took\MAMEC.ompiling\msvs64\src\compile-MAME.cmd - Notepad++ [Administrator]	_		Х
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?			×
			~
compile-MAME.cmd 🛛			
2 cls			^
3 REM sectors (Manga and Print and P			
REM Description : MARE/MESS updating/compiling batch-life REM Author : Mucci			
6 REM Date : 2016-01-28			
8 REM Used external programs (is already in the zip file)			
9 REM - Notepad2.exe from <u>http://www.flos-freeware.ch/</u> 10 RFM			
11 REM Changes : 1.1 updated make comands			
12 REM : 1.2 merged compiling NAME/MESS 13 REM : 1.3 fixed official names NAME/MAMEARCADE/MESS			
14 REM creating folders if not exists			
15 REM : 1.4 Creating folder if not exists only for choosen version 16 REM : 1.5 pause and clean mode added			
17 REM : 1.6 check if source is installed and with "no" download it first to 'mame'			
19 REM : 1.7 added "SnOW Last 200 commits in NotePac" 19 REM : 1.8 changed the compile part together, do a tool-update when MAME source is updated			
20 REM : 2.0 fixed for new compiling tools			
22 REM : 2.1 Some minor cranges 22 REM : 2.2 updated compling tools -> that need to update my script			
23 REM : 2.3 Added the option copy ""additional folders"" to the folder where the compiled exe is			
44 Mari			
26 REM This script is used only for the MAMEdev tools 77 REM Place this script and Notangel are to your berg folder			
28 REM Start always conemulat first (Environment) and after that "startMAME.cmd"			
29 30 REM Check on which OS is runing this script (x32/x64) and set the variable			
31 if defined PROGRAMFILES(X86) (
32 set CompileX=x64 33) else (
34 set Compilex-x86	_		
36 REM set the value for Architecture: x86 or x64 (default=x64) -> if you want to override the autotetection			
37 REM set CompileX=x64 38			
39			
40 KEM Set the default values for some settings 41 REM			
42 REM define version to compile as default = MAME, MAMEARCADE or MESS (default=MAME)			
44 REM CPU Core -> change that to the amount of cpu-core you have and add 1 -> "core +1"			
45 REM Example: dual-core or quad-core processor -> use the option -j3 or -j5			
47 REM Compile with tools: 0/off/without or 1/on/with (default=0/off/without)			
48 set Completols=0 49 set Completolsting=off			
50 set Compiletoolsstring2=without			
51 REM set default values for pause: on or off (default=on) 52 set batchpause=on			
53 REM set default values for doing a clean before compiling: on or off (default=off)			
54 set cleanmode=off 55 REM set default value for addon folder			
56 set Addonfolder=off			
58 REM Displaying a start information			
59 ECHO			
61 ECH0			
62 ECHO (c) 2016 mameguide.info 63 ECHO.	amegui	de.in	fo
64 RCBO.			~
Batch file length : 15799 lines : 4 Ln : 56 Col : 20 Sel : 0 0 D	os\Window U	F-8	



..are default values that the script uses after it is launched. Change them to the value you are preferring and save it. Let's look in detail what they are.



Those two section have settings that you can change (set name = value).
 Please change only in that section (at the beginning of the script) values.

2. There is always a REM line (remark) that describes what value are possible and what the default value is. Please be sure that you copy-paste the value you want to change from the remark line or be sure that you type it 100% correct.

3. There is a variable, as an example, that you can change the value.

4. The compile-script does detect your OS version while starting and set it to x86 or x64 value. If you are on a x64 environment, have the x86/x64 packages installed and want always compile a x86 version you can remove that "rem" in this line and set the value manually.

5. When you want that the compile always run and creates the MAME tools



you have to change all those 3 values to the right setting. Check the remark line for the value you must set (In that case don't forget to do a "make clean" in the main menu (Key B)).

ote: Change the value of the variable "Compilecpu" from "1" to the number of cpu cores you have and add 1 to it (see the notes in the remark line). It speeds up the compiling process.....

You have now configured/installed everything. Next time we want to

compile we have to launch "win32con.bat" and execute "compile-

MAME.cmd" in the shell (use the tab-key for auto complete the name ;-))



The compile-script menu appears and is ready to do his task :-)





Chapter 2: How to handle the script

he main menu of the compile-script have two type of action. We have some key-strokes that change settings in the menu like "pause-mode" or what version you want to compile. It sets only the value you want. Try it out....



The other key-strokes are executing a task like "compiling" or "updating". We are doing that later





Chapter 3: Using the script

B efore we compile we want to update our local source folder with the latest changes from the online repository. Press "U" and the update process



.....starts. There are 2 update tasks, one checks for compiling tools updates and the second one for MAME source updates. In my example I have enabled "pause mode", that means it will wait for a key-stroke after it has done the update.





If the tools need to be updated the script ask you to do that (correction with V2.3a: update procedure was very improved. It doesn't ask now for a "Y"):

C /src - compile_MAME cmd	- n x
<1> /src - compile	Search 🥂 🗗 🔻 🚹 🖬 🚍
	A
Updating local MAME tool folder	
. Curshurnining problem detabases	
mingw32 is up to date	
mingw64 is up to date	
msvs 130.0 KiB 63.5M/s 00:00 [################################	###############1 100%
mame is up to date	
:: Starting full system upgrade	
resolving dependencies	
looking for conflicting packages	
Packages (4) curl-7.47.1-1 +ile-5.25-1 libcurl-7.47.1-1 mintty-1~2.3	2.3-1
Total Download Size: 1 29 MiB	
Total Installed Size: 7.53 MiB	
Net Upgrade Size: 0.04 MiB	
:: Proceed with installation? [Y/n]	
	www.mameguide.info

Jsrc - compile-MAME.cmd					- 0	×
<1> /src - compile			2	Search	P 🖬 🕶 📶 🕶	
looking for conflicting packages			*0			^
5 5, 5						
Packages (4) curl-7.47.1-1 file-5.25	-1 libcurl	-7.47.1-1 mi	ntty-1~2.2	.3-1		
Total Download Size: 1.29 MIB						
Net Ungrade Size: 0.04 MiB						
:: Proceed with installation? [Y/n] y						
:: Retrieving packages						
libcurl-7.47.1-1-x86_64	185.0 KiB	90.3M/s 00:	00 [######	*********	.*************	‡] 100
curl-7.47.1-1-x86_64	595.3 KiB	96.9M/s 00:	00 [######	*********	**************	ŧ] 100
file-5.25-1-x86_64	396.5 KiB	96.8M/s 00:	00 [######	** ^#########	*************	≇] 100
mintty-1~2.2.3-1-x86_64	147.2 KiB	71.9M/s 00:	00 [### # ################################	**********	*************	¢] 100
(4/4) checking keys in keyring			[#####	***********	**************] 100
(4/4) checking package integrity		A	[######	***********	**************] 100
(4/4) loading package files			[######	***********	**************] 100
(4/4) checking for file conflicts			[######	############	*#############] 100
(4/4) checking available disk space			[######	**********	*##############] 100
:: Processing package changes			F			1. 1.00
(1/4) upgrading libcurl			[######	******	*************	1 100
(2/4) upgrading curi			[######	***********	**************	1 100
(3/4) upgrading mintty			[#######	************	****************	+] 100
(4/4) upgrading minety			[******	******	******	1 100
Updating local MAME source folde	r					
POST git-upload-pack (947 bytes)						
remote: Counting objects: 655, done.						
remote: Compressing objects: 100% (25	4/254), done	2.				
				www.h	iameguide.	
git.exe[64]:31708		« 150610[(54] 1/1 [+] NI	JM PRI: 105x33	(1,44) 25V 114	96 100%//



ote: Sometime it updates a lot to the compiling tools. Please quit the script and restarts it again. With that we are sure that everything works as expected :-) (see pic below as example)



After we have updated our local source folder our next step is compiling. Set the option what build you want to compile (MAME/ARCADE/MESS, x86/x64, with/without tools and with folderstructure or not). Remember MAME is now MAME and MESS together. When you only want the arcade part to be compiled choose "ARCADE" or "MESS" for a MESS executable.





Compiling is starting (press "c") and in the first line it will displays the information what it is compiling. If you have chosen a "version-type" for the first time it will creates a base-folder for that build where it stores the executables after finishing the compile.



In our example it has created the base folder for "_MAME_builds"



After it has finished compiling check the output of the windows. It will displays informations and if something went wrong you will see an error message there. If you have disabled the "pause-mode" you have no time to read it because the script will not wait and displays the main menu again...





It has moved the excutables to a subfolder named with the version-build number.

Let's do another compile with other settings. We have compiled the last time the MAME executable, now try ARCADE x86 with tools and folderstructure. If you need the tools to be compiled too, for example chdman.exe, you have to change the option (T) to "on". Each change of this settings requires a "make clean" first because otherwise it will not compile it correctly. After a first initial compile run it does on the second run only compile files that have changed. This behaviour speeds up the compiling time that it takes less after an initial run. When you want to switch/unswitch the tools we must clear that "cache" first so the next compile runs without the cache and it compile it correct.



Compile-MAME.cmd				-		\times
<1> compile-MAME.cm		Search	Ş	🔁 🗸	-	
MAMEdev update and compiling	V2.3					
(c) 2016 mamoguide info						
(c) 2010 manegurae.11110						
[U] = Update local MAME source	folder					
[C] = Compile MAME:						
- (V) Version - (A) Architecture	: ARCADE : x86					
- (T) with Tools	: off					
	2: ON					
(B) = Before compiling do a cle (P) = Batch Pause Mode	an: on : on					
[5] - Show lost 200 commits in	Notopad2					
	Nocepauz					
[E] = Exit						
Note: When you having problems	with					
compiling and tools are r	10t -/+ 1"					
Command: T						
enabling/disabling tools requ	vires a clea	n un				
GCC 5.3.0 detected						
Cleaning genie						
make.exe[1]: Entering directory 'E	:/Tools/MAM	ECompiling/msys6	4/src/	'mame/s	rc/devi	ces/cp
Cleaning						
make.exe[1]: Leaving directory 'E: /m68000'	/Tools/MAME	Compiling/msys64	/src/n	name/sr	c/devic	es/cpu
			ww.n	name	guide	info
rm.exe[64]:24584	« 150610[64] 1/1 [+] NUM PRI: 8	36x42	(1,37) 251	94780	100%

Remember: set the default value that you wish for "tools" in the script once and save the script.

Let's compile again with "C" and we have chosen to compile an arcade version of MAME. As it is our first run with this type it will create a base-folder "_ARCADE_builds"...





After finished the compile task it will shows you "no error" and we see that it has move the ARCADE build with the tools to a subfolder inside the "_ARCADE_builds" named with the "build version + Revision number + x86 or x64".



ote: We have compiled it with the option "subfolderstructure" enabled. Please note that those are not 100% complete as a full release of MAME has it incuded. But those are up-to-date from the repository and maybe it is also good to have them with the compiled exe.



Let's look at the next option in the main menu. We choose "S" for displaying information in the submitted-history-list of the source-code.



It will check if the local source-folder is up-to-date against the online repository and shows you the answer. After that it will open the log-file with the Notepad2. There you can see who has submitted a change, when did that happens and a short description of that change.





If you need more information use the webpage:

https://github.com/mamedev/mame/commits/master

Closing the Editor will brings us again to the script main menu.

With "E" for exit we quit the script.

Now you should know how to use the script :-)



Chapter 4: Troubleshooting

hen you have "compile-errors" do first a "make clean". It will deletes the compile cache and eliminates in most cases errors.

Example of a compiling error message:





Compile-MAME.cmd			- [
<1> compile-MAME.cm	Search	2	• 🚺 •	i Li
MAMEdev update and compil	ing V2.3			
(c) 2016 mameguide.inf	о О			
[U] = Update local MAME sou	rce folder			
[C] = Compile MAME: - (V) Version - (A) Architecture - (T) with Tools - (F) add Folderstruc	: ARCADE : x86 : on ture: on			
<pre>(B) = Before compiling do a (P) = Batch Pause Mode </pre>	clean: on : on			
[S] = Show last 200 commits	in Notepad2			
[E] = Exit				
Note: When you having probl compiling and tools a generated - enable "c	ems with re not -/+ lean" !!!!			
ommand:		-		
		v. mam	eaui	de int

Sometimes are errors in the source code after a "bad" submit in the online repository. There is nothing we can do except update the local source code with "U" with a new version, try again to compile and see if it does run.

We had recently a special "error", compiled it fine (no error) but "mame64.exe -listxml" had not worked with this compiled exe. That was really strange and after done a "clean" first, compiled the executable again this error was gone and the output from the mame64.exe was created again.



Problem: I can not change the parameter "(A) Architecture"!

The compile script does check on what platform it is running. You can not compile a x64 version on a x86 environment. Also if you have only the x64 package installed and not the x86/x64 package you can not switch to a x86 compile.

 \rightarrow check your environment!

Problem: I got this "warning messages" after an update

Those warnings are only information that they are "up-to-date", the script does work correct \rightarrow ignore them.

📮 cmd - compile-MAME.cmd (Admin)		100	
<1> cmd - compile-M	Search	₽. 🕶 🖬	- 🔒 🔲 =
Updating local MAME tool folder			
:: Synchronizing package databases mingw32 is up to date mingw64 is up to date msys is up to date mame is up to date warning: bash-4.3.042-4 is up to date skipping warning: pacman-5.0.1.6403.520736d-1 is up to date skipping warning: msy2-runtime -2.5.0.1740.945874-1 is up to date skipping			
there is nothing to do			
there is nothing to do			
<pre>:: Starting full system upgrade there is nothing to do</pre>			
Updating local MAME source folder From https://github.com/mamedev/mame = [up to date] master -> origin/master = [up to date] bgfx_shader -> origin/bgfx_shader = [up to date] couriers -> origin/dxygen = [up to date] ndsygen -> origin/ndsygen = [up to date] nds-angrylion -> origin/nds-angrylion = [up to date] new_menus -> origin/nds-angrylion = [up to date] new_menus -> origin/new_menus = [up to date] new_menus -> origin/new_menus = [up to date] new_menus -> origin/new_menus = [up to date] saturn_cdblock -> origin/saturn_cdblock = [up to date] wof -> origin/wof			
Version : 0172 Build : 20fefdb782744b5d74c9698e5c1d0056e16fb886 Revision : 42251 Press any key to continue			
	www	mamegu	ide.info
cmd.exe[*64]:41420	NUM PRIt 108x47	(33,42) 25V	23756 100%