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</table>

2
using virtual machine

although you can run the bot straight in your host operating system (assuming that your host windows version is supported for your desired poker room – check the table at http://www.warbotpoker.com), it may be convenient to install virtual machine (vm) and run all your poker-related stuff inside: poker-rooms, the bot, pokertracker, etc..

a virtual machine is a software computer that, like a physical computer, runs an operating system and applications. the virtual machine is comprised of a set of specification and configuration files and is backed by the physical resources of a host. every virtual machine has virtual devices that provide the same functionality as physical hardware and have additional benefits in terms of portability, manageability, and security. virtual machines run in their own different environments, isolated from each other.

using vm for botting has some serious advantages:

- you don’t need to change/configure your main os if poker-room or the bot demands other windows version, or configuration. you can even do it on mac/linux computer.
- when poker-rooms and bots are running in vm, you are free to use your main os like you wish. vm can run completely in background, minimized.
- you can set large virtual screen resolutions like 6400x1200, which is probably unachievable for your real monitor. it allows you to open a lot of tables without overlapping, even if table size is big (important for winxp/win7)
There are some popular virtual machines like VMWare and VirtualBox. You can use any, but if you are new to this, we recommend VirtualBox (https://www.virtualbox.org/wiki/Downloads), because it’s free, lightweight, and easy to install.

**CONFIGURING YOUR OS**

Update Flash Player: https://get.adobe.com/flashplayer/

**WINDOWS THEME**

*WinXP:*
Set your Windows theme to "Windows classic", to minimize risk of incompatibility:
right-click on your desktop, go to Properties - Themes and choose "Windows Classic";

*Vista/Win7:*
Set your Windows theme to "Windows classic", to minimize risk of incompatibility:
go to Control Panel - Themes, choose "Windows Classic".

*Windows 8/10:*
no changes needed. Ignore warning messages at start.

**DPI SETTINGS**

*Windows XP*
Right click on an empty area on the desktop then choose Properties in the pop up menu. Click on the Settings tab in the Properties dialog. Then click on the Advanced button. Change the DPI setting to 96 Bit in the General tab. Click on OK in the Advanced dialog and on Ok again in the Properties dialog. Note that this change requires you to shut down and restart your windows machine in order for it to take effect so you MUST restart your machine after making this change.

*Vista, W7, W8, W10*
Right click on an empty area on the desktop then choose Personalize in the pop up menu. In the dialog box that shows up, click on the Display link at the bottom left corner. You will then see a screen titled “Make it easier to read what’s on your screen”. On this screen select the option titled “Smaller – 100% (default)”. Then click on the Apply button. A
dialog box will come up with the title “You must log off your computer to apply these changes”. Click on “Log of Now” button.

Sometimes this option helps to solve problems with DPI (Right click on poker client icon and go to “Preferences”):

![Compatibility settings dialog box]

**LANGUAGE SETTINGS**

Warbot needs your Windows language to be in English at most of our supported poker rooms (some special regional rooms are exceptions). From the Control Panel in Windows, find the **Language and Regional Options**. Set this to **English / United States**. (Please note that **English / United Kingdom** can cause problems due to their using commas in place of decimals, so do not use that)

*If your native Windows language is not English* you also need to adjust your language for non-unicode programs. Here is the path for doing that in Windows 7:

**Control Panel >**

**Clock Language and Region >**

**Change Keyboards or other input methods >** **set keyboard language to English here**

**Administrative tab >**

**Language for non-unicode programs >** **here set this to English/US**

Don’t forget to make sure your keyboard language is set to English /US on the third step on the above path.
TURN OFF CLEARTYPE

Windows XP:
right-click on your desktop, go to Properties - Appearance, click Effects and turn off "Use the following method to smooth ..."

Vista/Windows 7:
go to ControlPanel\System\Performance Information and Tools\Adjust Visual Effects [sidebar],
then select "Adjust for best performance" and click OK.

Windows 8/10:
go to Control Panel, enter "performance" in search box and click "Adjust appearance and performance"
then uncheck "Smooth edges of screen fonts" and click OK:

Also try to turn ClearType on (in Control Panel), and then turn it off. Usually it helps to fix it finally.

If you still get “Font smoothing is enabled” alert, try this guide: http://www.thewindowsclub.com/disable-font-smoothing-windows (first 3 steps)

IMPORTANT: If you’re using Win7 and higher, you need to always run your bot and resizing/additional tools (if needed) as administrator. Otherwise, the bot can experience issues with clicking buttons and typing bets.

To do that, install your bot (read “Installing and starting the bot” chapter), then right-click on the bot .exe file (usually GamingTools.exe), then click on Properties and Compatibility tab. (see screenshot below)

NOTE: If you are doing this while logged on as a standard user instead of an administrator, then you will need to also click on the Change settings for all users button and type in the administrator's password.
Every poker-room software that you intend to use with the bot, must be properly configured. But first of all, make sure that it is installed in English language (except for few specific regional casinos). If not, uninstall it and install again in English.

Detailed instructions for every poker-room supported by the bot can be found in “PokerRoom Settings” folder at

http://www.warbotpoker.com/roomsettings/
**IMPORTANT**: If you’re going to use your bot for PokerStars, you will need to run the bot in so-called **“Stealth Setup”** mode.

This way the casino can’t detect the bot instantly. However, PokerStars is hunting for bots, and bans happen there from time to time. Use it at your own risk, or choose any other casino.

For safety reasons, please play on PokerStars manually from time to time (20-30% of time) - it highly reduces risk of ban!

All the rest poker-rooms can be started without any special stealth setup. Hiding the bot is completely unnecessary there.

Ok, now you’re ready to start your bot.

After installing the software, you will see new shortcut called **“GamingTools”** on your desktop and also new Start Menu program group named **“GamingTools”**, which contains the main program shortcut and also manuals shortcuts. Click **“GamingTools”** to run your bot.

The bot will be started in a moment:

Now it’s running with default profile (it’s applicable for cash games). Next chapter shows how to load other profiles into the bot.
The bot gets its playing instructions from special .ohf/.oppl files, called “Profiles” (or “Formulas”). We recommend to keep them in “\bot_logic” folder inside your bot folder (by default it is C:\GamingTools\bot_logic). There are profiles for cash, mtt, sng games, profiles for DoN, Fixed Limit cash games, speed/fast fold games etc. Some of them are designed to play only short-handed games, some are for full-ring games, some are universal.

Payed version of Warbot comes with “King Of The Ring” profile, that is kind of universal. But if you are going to buy more profiles in our store, you should understand that for successful botting, it is essential to use profiles for their main purposes.

To load new profile, make sure that autoplayer (rhomb) button is disabled and click “open” icon to choose some profile (formula) for your game:
After the profile is loaded you will see its name in window’s caption:

Profile called “Warbot7_KOR_1.3.k” is loaded and active

---

**CONNECTING THE BOT TO POKER TABLE**

When your profile is loaded, you can sit down at some table. Bot will connect to it and start auto-playing when your pocket cards appear. Here we’ll show how to connect the bot to Poker888 6max cash NL table (for example).

First of all, you need to setup your poker-room client, according to Poker Room Settings.

Open your table and sit in. If possible, always choose “Wait for big blind” option.

After the table is opened and clearly seen, the bot should auto-connect and start playing (when your cards appear).
It is essential to understand whether the bot reads all data correctly or not. Game actions depend on it.

Every time you’re connecting to new table you must check if the bot can recognize all important information:

- **Active tablemap** means the name of tablemap file, that is currently in charge. Watch it to match your table specification. In our example, we’re playing 6max cash table in 888 room, so our tablemap is correct.

- **Autoplayer button**. It is a “rhomb” button on your toolbar. When it is pressed, the autoplayer is engaged. It means that the bot will do all actions automatically. If you want to pause it (for example do some action yourself or edit profile) you can just deactivate autoplayer button for a while. But the bot will still read all data.
- Formula (profile) editor. Use it to edit loaded formula(profile). More about it later in manual.
- Blinds. You can see it in the white box after “NL” symbols. 0.01/0.02/0.04 means that small blind is 1c, big blind is 2c and big bet (only for FL games) is 4c. Matching blinds with real ones is extremely important!
- Pot. It is right under blinds. In this case it is 6 cents.
- Balances. Compare players’ balances with what you really have on your table.
- Seated/active players. Seated player is marked with a circle (you can see it over balance box). Active players (which are not seated out) have white circles. When somebody goes in sitout, his circle becomes gray.
- Opponent’s cards. Yellow card rectangles mean that player is holding cards right now. Gray(empty) boxes mean that he folded or not in the game.
- Dealer button. Dealer button is marked with small red circle.
- Common cards. You can see them in the middle of bot window. They must always match those on the real table.
- Your hole cards. You can see them over your balance.
- Possible actions (buttons). FCKRA buttons mean Fold / Call / Check / Raise /Allin. If the letter is lighted, it means that this button is visible and active.
- Flags (in the lower-bottom corner) also mean possible actions: Autopost blinds/Sitin/Sitout/Leave table/Prefold. Usually the bot doesn’t control autopost/leave actions, but sitin/sitout/prefold actions are often supported (depends on tablemap and casino).

From time to time a supported poker room can upgrade their software in a manner that temporarily causes mis-scrapes. Usually we will update our tablemaps quickly and send to existing customers, but if you have noticed that something is wrong, and the bot reads data incorrectly, please contact our support at warbotcontact@gmail.com and explain your issue, we will try to assist.

**CONNECTING POKERTRACKER**

Some profiles are able to get stats from PokerTracker database and use it to your benefit. Check profile description on our site to make sure that it uses PokerTracker stats.

Recommended steps to install PokerTracker, before using it with Warbot:

1) If you are using virtual machine, set at least 1 GB of memory (RAM)
2) At first install PostGreSQL database, which interacts with Warbot:  
   http://www.enterprisedb.com/products-services-training/pgdownload#windows
   No need to install "Stack Builder", when it asks for it.
   It will also ask you to enter password for your database. Remember it, you will need it later.
3) Now install PokerTracker from official link (or whatever you find):  
   https://www.pokertracker.com/
Then, in Warbot, you need to setup PokerTracker access properties, in order to connect to your database. Click Edit – Preferences and enter PokerTracker tab:

- **Host Name / IP Address, Port, Username, Password, DB Name**: These are the parameters that you entered when you setup your Poker Tracker PostgreSQL database. Enter them here so Warbot knows how to connect to your database. Usually, you just need to enter your DB password. All the rest settings are already there, if you didn’t change default settings during PostGre installation.

- **Test**: This button will test the connection to the Poker Tracker database as specified by the above parameters and will report success or failure codes.

**Disable HUD (Heads-up-display), when using bot!** It prevents the bot from properly reading screen data. Also, you don’t have your PokerTracker to be running with the bot. The bot gets stats from database, not from PokerTracker app itself.
PokerTracker can automatically tune your PostgreSQL database server to take advantage of your computer’s available RAM (this is optional step).

1) Click *Database > Database Maintenance*
2) Click Housekeeping, and select Tune PostgreSQL. A window will appear which notifies the user that Tuning is progress.
3) Tuning will take effect the next time that the PostgreSQL server is restarted, either due to a computer restart or when the Restart Service button is clicked inside of the Database Management window.
MULTITABLING

In order to bot on more than one table, you need to run as much instances of your bot, as many tables you have. Profiles also must be loaded properly. Every appearing table, that is clearly seen on the screen, will be connected to unassigned (free) instance of the bot automatically.

You can minimize your bots to save screen space, but keep your tables visible on the screen.

You can open tables of different game types at the same time. And even from different casinos. For example you can play few cash games on Titan and SNG or MTT on 888Poker simultaneously.

Important:

Warbot is a screen-scraping bot, meaning that it reads everything from the screen. If you are not using Win8/Win10, you should avoid overlapping tables and especially never fully occlude them. This might lead to missing information or in the second case even to a hand-reset. Hand-reset means: all game-history lost, all variables reset, and this is not what you want.

* Win8/Win10 allows to scrape tables even if they are overlapped.
RAKEBACK

Rakeback is necessary to show a worthwhile long-term profit for most cash games. Please sign up for your poker accounts through a reputable rakeback provider. If you don't have a bonus or rakeback going for you, you should only play SNG’s or Tournaments.

You can signup for rakeback through our favorite provider by following this link:

http://tinyurl.com/nu7gzc

STEALTH SETUP

“Stealth” techniques are used to avoid being detected by casino software. This method can be applied for any casino, although most poker-rooms that Warbot supports are safe (indicated with “Low” security level on the main site page) and don’t need any special setup. However, PokerStars and some other casinos with High/Medium security level can ban you if running the bot there naked.

Procedures described in this chapter are for experienced computer users. Of course, we will always support you and assist, but if you feel that you are not ready for this – please choose some safe poker room for your botting and don’t bother with complicated stuff.

Stealth setup steps:

1) Rename all .exe and .dll files
2) Restrict bot folder from accessing by casino software
3) Configure bot settings, rename folder, change .exe icon

Rename all .exe and .dll files

Casino software is able to read active process names and their paths, so we should make sure that all executive files and .dll libraries are renamed. We have made special tool for this job:

http://www.warbotpoker.com/files/RenameTool.zip

Unzip it to any folder on your drive, and run .exe file.

1) Make sure that your Warbot folder is set correctly
2) click “Generate”. Random filenames will be generated. You can set your own filenames too
3) We recommend to backup your Warbot folder before next action, to be able to recover all files if anything goes wrong
4) Now click “Start”. Filenames will be renamed with new ones automatically

If you are using any additional popup-clickers/hoppers, its good idea to rename them too, and place in protected folder (see below).
Restrict bot folder from accessing by casino software

Ok, now renaming is finished and casino software can’t detect anything suspicious in running programs (processes), but it still can search your HDD for bot-related files. So it’s wise to restrict your bot folder access. The easiest way to achieve it, is to create new user account, to run casino software. We will give it admin privileges, but will completely restrict access to the bot folder. So you will run your bot from your main admin account (like usual), and your poker client – from new account.

Algorithm:
- Goto Control Panel -> System and Security -> Administrative Tools -> Computer Management -> Local Users and Groups. Create new “Casino” user (name it as you want), give it some password (that never expires). If your poker client requires admin privileges to run, add “Administrators” to “Member of” tab (don’t do it unless it’s really necessary)
- Open your bot folder properties -> Security tab. Add your new “Casino” user to the list of user names and deny access to this folder completely (only for this user of course)

Now, to run your poker client, right-click on its desktop shortcut, while holding your SHIFT button, and select “run as different user”. Then type your “Casino” username and password.

That’s it. Now your poker client can’t access bot folder.

Configure bot settings, rename folder, change .exe icon

Now final tweaks. Go to the bot preferences -> Stealth, and check “Simple main window title”. This is to hide the profile name from the bot window title. But remember, that Warbot will still load the latest profile on each restart, despite you can’t see its name now.

Change “Mutex” and “Window class name” also – choose any strings you like (don’t forget to change it in “Warbot Hopper” tool, if you use it). Close the bot.

Next step is to change the bot icon. This is for those cases, when the casino tries to make screenshot of your desktop to see what programs are running. We recommend free “Resource Hacker” utility for that: [http://www.angusj.com/resourcehacker/](http://www.angusj.com/resourcehacker/)

This process is very simple: you just open your main .exe bot file inside Resource Hacker, then replace icon with any other (you can find it in other .exe file for example), then save .exe file.

Rename your bot folder from “GamingTools” to some other name, and create new shortcut on your desktop. It should be with your new icon and with your new bot name (can require a reboot after it).

Warning: we still don’t guarantee 100% safety at PokerStars even if using this stealth method!


Advanced stealth (for experienced pc users)

There is even more advanced Stealth setup, known as “Dual system configuration”. In this scenario, the poker client software resides on “System A”, and the bot resides on “System B”. Bot connects to the poker client windows using the “Bring” software. In order to make this scenario work, you either need two physical machines or two virtual machines.

Video tutorial: [https://youtu.be/slaGXWgOljA](https://youtu.be/slaGXWgOljA)
HOW TO EDIT/CREATE PROFILES

Before starting to edit your profile, make sure that Autoplayer is turned off:

THE FORMULA EDITOR

When the “Edit/Formula” menu option is selected, or the “Sigma” button on the main toolbar is clicked, the following window is opened:
On the left side of this window is a tree ("Formulas") that allows you to select the various functions that are present in your loaded formula file. Functions you see in the screenshot above will be present in every formula file, as these functions are central to how you instruct Warbot to make poker decisions.

There are “results” field, “Calc” and an “Auto” button above the editor control. The “Calc” button will calculate the currently selected function and display the results in the “results” field. The “Auto” button is only available when the “f$debug” function is selected, and will cause the information displayed in editor control to be updated once every screen scrape cycle.

Below the editor control are “Apply” and “Close” buttons. “Apply” button will activate changes that you've done to profile. “Close” button will close formula editor
OpenPPL functions

“OpenPPL functions” tab allows you to access 4 primary functions that controls the profile logic: preflop, flop, turn and river. Each of those functions returns some logic decision, that applies to different game stages accordingly. You can read about OpenPPL language later in this manual.

Secondary functions

The following table describes the secondary functions. These are secondary, because they do not directly instruct the Autoplayer to take action, but rather are used indirectly to determine the action, some of which are not the traditional poker actions of all-in, raising, checking, calling or folding.

$f$prefold: if this function evaluates to non-zero, and a pre-fold button is visible on the poker table window (as defined in the TableMap), then Warbot will engage that pre-fold button as soon as it can (which may be before it is your turn to act).

$f$delay: The function controls how long to delay, before taking a poker action. The function evaluates to the delay time in milliseconds.

An example of this might be: \textit{random} * 3000

This function says to randomly delay the Autoplayer’s action from zero to three seconds.

$f$allin\_on\_betsize\_balance\_ratio: Allin if betsize is more than X\% of our total balance (including currentbet).
Examples:

0.00 (it means 0% = disabled)

0.80 (it means to go all-in if our bets is more than 80% of our total balance)
Hopper functions

These functions control sitting in / sitting out / leaving / closing tables, etc..

Usually tablemaps and profiles only use sitin/sitout functions, leaving the rest for the user.

Debug functions

The debug function operates differently than the other function. Its purpose is to allow for arbitrary expressions to be evaluated and the results of those expressions to be displayed. To add a new expression add a new line with an equal sign, followed by the expression. For example:

= 2+2

= f$UserDefinedFormula

= nopponents

In order for the results to be displayed you must either press the 'Calc' or 'Auto' button. The 'Auto' button will recalculate the debug formula once each heartbeat.

For example:

4 = 2+2
1 = f$UserDefinedFormula

6 = nopponents

OPENPPL LANGUAGE

PPL is an acronym for Poker Programming Language, a language to program poker bots. It is simple and intuitive, that’s why becoming so popular among poker-botting community. To learn it in-depth, please refer to special OpenPPL manual (OpenPPL_Manual.chm file inside your bot folder).

WARBOT SCRIPT LANGUAGE

Along with OpenPPL, you can use internal Warbot scripting language, which is similar to “C programming language” and sometimes can be helpful.
Main operators

<table>
<thead>
<tr>
<th>Category</th>
<th>Operator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exponentiation</td>
<td>**</td>
</tr>
<tr>
<td>Multiplicative</td>
<td>* / %</td>
</tr>
<tr>
<td>Additive</td>
<td>+ -</td>
</tr>
<tr>
<td>Equality</td>
<td>==(equal) !=(not equal)</td>
</tr>
<tr>
<td>Logican AND</td>
<td>&amp;&amp;</td>
</tr>
<tr>
<td>Logical OR</td>
<td></td>
</tr>
<tr>
<td>Conditional</td>
<td>? :</td>
</tr>
<tr>
<td>Group</td>
<td>() [] {}</td>
</tr>
<tr>
<td>Comment (line is not executed)</td>
<td>//</td>
</tr>
</tbody>
</table>

Syntax

Script expressions are built in this logic:

“IF (condition1) THEN (return value1) ELSE
IF (condition2) THEN (return value2) ELSE
......
return valueX”

Using script operators this expression becomes:

(condition1) ? : value1 :
(condition2) ?: value2 :
......
valueX

Example below shows f$delay function, which sets action delay depending on hand strength. It’s 0..3.5 seconds for SET, 0..2 seconds for TOPPAIR and 0..1 second for the rest of hands:
Useful common symbols

You can use these symbols inside your code. They are not part of OpenPPL, but can be used along with it.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>nchairs</td>
<td>Number of chairs that current tablemap uses</td>
</tr>
<tr>
<td>handnumber</td>
<td>the site hand number if available</td>
</tr>
<tr>
<td>sitename$abc</td>
<td>true if user defined string “abc” appears within the Table Map symbol “s$sitename”&lt;br&gt;example: sitename$888</td>
</tr>
<tr>
<td>bblind</td>
<td>Big blind amount</td>
</tr>
<tr>
<td>sblind</td>
<td>Small blind amount</td>
</tr>
<tr>
<td>betround</td>
<td>Betting round (1-4) 1=preflop, 2=flop, 3=turn, 4=river</td>
</tr>
<tr>
<td>prwin</td>
<td>the probability of winning this hand (0.000 - 1.000)</td>
</tr>
<tr>
<td>Prlos</td>
<td>the probability of losing this hand (0.000 - 1.000)</td>
</tr>
<tr>
<td>Prtie</td>
<td>the probability of tie (0.000 - 1.000)</td>
</tr>
<tr>
<td>random</td>
<td>random number between (0.000-1.000). Value is recalculated each time symbol appears in formula.</td>
</tr>
<tr>
<td>randomhand</td>
<td>random number between (0.000-1.000) for the hand. Value is calculated only once per hand.</td>
</tr>
<tr>
<td>randomround</td>
<td>random number between (0.000-1.000) for the current round. Value is calculated only once in current round.</td>
</tr>
<tr>
<td>islist0 - islist999</td>
<td>true if your hand is in the numbered (0-999) list</td>
</tr>
<tr>
<td>nplayersseated</td>
<td>number of players seated (including you) (0-10)</td>
</tr>
<tr>
<td>nplayersactive</td>
<td>number of players active (including you) (0-10)</td>
</tr>
<tr>
<td>nplayersdealt</td>
<td>number of players dealt (including you) (0-10)</td>
</tr>
<tr>
<td>nplayersplaying</td>
<td>number of players playing (including you) (0-10)</td>
</tr>
<tr>
<td>nopponentsseated</td>
<td>number of opponents seated (not including you) (0-9)</td>
</tr>
<tr>
<td>nopponentsactive</td>
<td>number of opponents active (not including you) (0-9)</td>
</tr>
<tr>
<td>Metric</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>nopponentsdealt</code></td>
<td>number of opponents dealt (not including you) (0-9)</td>
</tr>
<tr>
<td><code>nopponentsplaying</code></td>
<td>number of opponents playing (not including you) (0-9)</td>
</tr>
<tr>
<td><code>f0 - f19</code></td>
<td>true if flag 0 - flag 19 button is pressed, false otherwise</td>
</tr>
<tr>
<td><code>ncardsknown</code></td>
<td>total number of cards you can see (yours and commons)</td>
</tr>
<tr>
<td><code>elapsed</code></td>
<td>time in seconds since sitting down</td>
</tr>
<tr>
<td><code>elapsedhand</code></td>
<td>time in seconds since end of previous hand</td>
</tr>
<tr>
<td><code>elapsedauto</code></td>
<td>time in seconds since autoplayer took action</td>
</tr>
<tr>
<td><code>elapsedtoday</code></td>
<td>time in seconds since midnight GMT</td>
</tr>
<tr>
<td><code>issittingin</code></td>
<td>true when you are not being dealt out</td>
</tr>
<tr>
<td><code>issittingout</code></td>
<td>true when you are being dealt out</td>
</tr>
</tbody>
</table>
Table statistics symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>floppct</td>
<td>percentage of players seeing the flop for the last 15 minutes</td>
</tr>
<tr>
<td>turnpct</td>
<td>percentage of players seeing the turn for the last 15 minutes</td>
</tr>
<tr>
<td>riverpct</td>
<td>percentage of players seeing the river for the last 15 minutes</td>
</tr>
<tr>
<td>avgbetspf</td>
<td>average number of bets preflop for the last 15 minutes</td>
</tr>
<tr>
<td>tablepfr</td>
<td>Pfr (preflop-raise) percentage preflop for the last 15 minutes</td>
</tr>
<tr>
<td>maxbalance</td>
<td>my highest balance during the session</td>
</tr>
<tr>
<td>handsplayed</td>
<td>number of hands played this session</td>
</tr>
</tbody>
</table>

ICM symbols

ICM preferences control how the Warbot Independent Chip Model calculator operates. There are a plethora of resources online for understanding the Independent Chip Model. Start here: [http://www.google.com/#hl=en&q=independent+chip+model](http://www.google.com/#hl=en&q=independent+chip+model)

You only need to setup those symbols if your profile specifically says that it supports ICM! Otherwise just ignore it.

1st through 9th place: These settings specify the values of 1st through 9th place of your tournament, and are directly used in the ICM Engine’s calculations. Specify percentages or absolute prize values here. Percentages should add up to 100%.
ICM symbols to use in functions:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>icm</td>
<td>my tournament equity before any action is considered</td>
</tr>
<tr>
<td></td>
<td>(just balances)</td>
</tr>
<tr>
<td>icm_fold</td>
<td>my tournament equity if I fold</td>
</tr>
<tr>
<td>icm_callwin</td>
<td>my tournament equity if I call and win</td>
</tr>
<tr>
<td>icm_calllose</td>
<td>my tournament equity if I call and lose</td>
</tr>
<tr>
<td>icm_calltie</td>
<td>my tournament equity if I call and tie</td>
</tr>
<tr>
<td>icm_alliwin0 - icm_alliwin9</td>
<td>my tournament equity if I push all-in and win against 0 - 9 callers</td>
</tr>
<tr>
<td>icm_allilose1 - icm_allilose9</td>
<td>my tournament equity if I push all-in and lose against 0 - 9 callers</td>
</tr>
</tbody>
</table>

**Using Hand Lists**

To create hand list, select Hand list tab in formula editor and click “New” button. Then enter list name (example: list1):
Then click “squares” button to edit it:

Hand lists are used by the following calculated symbols, and can be referenced in Script code, or OpenPPL.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>listX</td>
<td>true if your hand is in the list examples: list1, listCall, listAllin, etc..</td>
</tr>
</tbody>
</table>

Examples of using it:
CONFIGURING SITIN/SITOUT OPTIONS OF THE PROFILE

The bot has ability to sitin/sitout, depending on profile instructions. You can change and create new conditions. For example you can instruct profile to sitin/sitout, depending on your stacksize, length of session, table stats, number of opponents and so on.

When $fsitout$ function is true, bot will try to click “sitout” button, when $fsitin$ is true, bot will click “sitin” button.

Good practice is to make sure that these functions are not equal to each other at some point.

You can use all script and OpenPPL operators and symbols to edit these functions. Lets look at some popular examples:

Ex. 1 shows simple settings for sitting out when number of your sitted and active opponents falls below 4 and sitting in when it goes 4 or more.
Example 2

Ex. 2 instructs profile to sit out when time of session exceeds 3600 seconds (60 minutes). $\text{f$sitin}$ is empty (no special sitin instructions).

Example 3

Ex. 3 tells bot to sit out when number of active opponents falls below 5 OR number of played hands goes above 200

And to sit in when number of active opponents goes 5+ AND number of played hands is less than 200

Example 4
Ex. 4 instructs profile to sit out when your stacksize is above 200 big blinds OR average percent of players who see the flop goes below 25% (good for common TAG profile). Sit in is opposite as usual: it’s true when your stacksize is lower than 200 big blinds AND average percent of players who see the flop goes higher than 25%.

You can create infinite amount of variants here, depending on the profile, your playing style and other conditions. Most popular symbols are already covered in this section. For more symbols refer to OpenPPL guide and script symbols lists (above).

### TROUBLE-SHOOTINGS AND REPORTING BUGS

#### VMWARE ISSUES

If you get this error message in your VMWare: “Failed to initialize MKS drag and drop functionality. Drag and drop operations into or out of the guest may not work”, you need to do the following.

Go to “My Documents” folder, then enter “My Virtual Machines” and finally, enter your poker virtual machine folder. Select .vmx file and open it with Notepad for editing:

Search for “mks.enable3d” string and change it from TRUE to FALSE:
Save and close this file. Then reboot your pc. Problem should disappear.

VIRTUAL BOX RESOLUTION

If you are using Virtual Box instead of VMWare (not for stealth-mode but for general reasons), you can notice that it doesn’t allow you to set virtual screen resolution higher than 1600x1200. Here is a workaround:

Open command prompt (Start > Run > CMD ) change directory to your Virtual Box installation Directory (usually C:\Program Files\Oracle\VirtualBox), but you may have another path.

Run this command from the command prompt:

"VBoxManage setextradata global GUI/MaxGuestResolution any" (without the quote marks)

This changes the max resolution on ALL your Virtual Box VM’s.

One final step: when you have your VM open, click View and make sure that “Guest Display Auto Resize” is disabled.

Now - just change the resolution on your VM as you normally would, Right-Click on the desktop > Properties > Settings. You must be able to get up to 6400 x 1200.
MISSING MSVCR FILES

If you get this error:

![Error Message]

The program can’t start because MSVCP140.dll is missing from your computer. Try reinstalling the program to fix this problem.

You need to download and install Microsoft Visual C++ 2015 libraries:


HOW TO READ LOG FILES

Log files are located in Warbot/logs folder. They help to understand why the bot acted the way it did. Let’s look at log file example:

OpenHoldem
Version [11.0.2.0, b68bb7059b3529e4c509873612e22489]
Formula [Warbot9_KOR_1.3.k_1.ohf]
Tablemap [C:\Warbot11.0.2\scraper\WB9_MM1102.tm]
DLL []
Table: OpenHoldem Poker - No Limit - blinds 5/10

Here we can see the version of OpenHoldem engine, formula (profile) name that was loaded at the moment, tablemap that was loaded, no extra dll file used, and table name. Let’s look next:

HAND RESET

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-02-25 22:44:35 - Chair 5</td>
<td>Player5 SAP-</td>
<td>0.00</td>
<td>1000.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 6</td>
<td>Player6 SAP-</td>
<td>0.00</td>
<td>1000.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 7</td>
<td>----</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 8</td>
<td>----</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 9</td>
<td>----</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 0</td>
<td>Player0 SAPD</td>
<td>0.00</td>
<td>1000.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 1</td>
<td>Player1 SAP-</td>
<td>5.00</td>
<td>995.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 2</td>
<td>Player2 SAP-</td>
<td>10.00</td>
<td>990.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 3</td>
<td>Player3 SAP-</td>
<td>0.00</td>
<td>1000.00</td>
<td></td>
</tr>
<tr>
<td>2017-02-25 22:44:35 - Chair 4</td>
<td>Player4 SAPD</td>
<td>0.00</td>
<td>1000.00</td>
<td></td>
</tr>
</tbody>
</table>

“Hand Reset” means that bot detected the start of new hand. Then we see players info: name, SAPD (seated, active (not seated out), playing (holding cards), dealer button), bets (blinds) and balances. Next:
We see number of chairs (total in the tablemap), # of our chair, our cards, community cards, handrank (from 1 to 169), our hand-strength, our balance, our current bet, amount to call, pot size, Big blind and Big bet, amount of bet size, FCKRA flags (fold, call, check, raise, all-in), and taken action (bet/raise 50). Next:

And finally, functions evaluation, at all levels: f$preflop returned 5 (means raise 5 BB). f$preflop function called bblind and f$MTT_SNG preflop functions. f$MTT_SNG preflop function called a lot of functions and finally returned 5 (it was 1146th string). So we can open this function in Formula Editor and find this string, to fully understand what and why happened.
TABLE READING ERRORS (HOW TO SEND REPLAY FRAME)

If you see that Warbot connects to table, but can’t recognize some essential data (cards, stacks, bets, blinds, dealer button, etc..) or recognizes it incorrectly, please do the following:

1) Make sure that the bot is connected and your table is clearly seen on the screen
2) Click “camera” button on the bot toolbar (do it for each situation you want to report)
3) Send GamingTools\replay folder (usually located in C:\GamingTools) to warbotcontact@gmail.com and explain what happened. You can zip this folder before sending.

If the bot can’t even connect to the table, try this:

1) Make sure that your poker table is visible
2) Go to bot folder and run /Tools/OpenReplayShooter.exe
3) Pick your window(your poker table) to capture, click Start and wait a few seconds – it will collect a couple of replay frames in selected folder (C:\TMP by default)
4) Send C:\TMP folder (or another, if you changed it) to warbotcontact@gmail.com and explain what happened. You can zip this folder before sending.

WRONG PROFILE ACTIONS

If the bot is making clearly wrong/strange decision (in your opinion), please do the following:

1) After such bad move happened, turn off Auto-player (rhomb button)
2) click Edit -> Tag log file
3) click Edit -> View log file. Log file will open in notepad
4) find that file in your GamingTools\logs folder (usually located in C:\GamingTools) and send it to warbotcontact@gmail.com with your question or explanation. You can zip this folder before sending