

Nucore 2.0 Update Information & Instructions

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New Functionality

1) Network support for Tournament Mode* - Nucore will now connect to properly written pinball 2000 tournament servers. This update will work with any card Ubuntu Linux supports and will require no special router or additional hardware. Included in the update is 'servers.txt'. This file contains a list of servers that you can select from the new tournament option in the Nucore menu. You can modify this file to add or remove servers and this file is copied from the usb stick during an update. File format is as follows:

IP Address, IN-PORT, OUT-PORT, Server Name

Example:

127.0.0.1, 2069, 2070, Dons Server

*note - original pinball 2000 servers use 2069 for both input and output. The Nucore Tournament Server (NTS) can use any two ports as specified by the server admin. Default is 2069/2070 UDP.

You will need an active internet connection in order to use this feature.

2) Jukebox mode screen blanking - This option is controlled through the jukebox settings in the Nucore config menu which lets you specify the amount of seconds until blank.

3) Jukebox song delete - you are able to delete songs or erase all songs from the Nucore config menu. There are two methods to delete songs, a pick list and delete the entire library. The pick list is very easy to use and allows you to scroll through as many songs as you want and tag them for deleting.

4) Jukebox back - While on random play the left flipper button will step backwards through all of the songs previously played.

5) Misc performance improvements.

6) Bulb error override - if you want to use LEDs you have an option to report the bulbs as being good so you won't get a credit dot. The config file for this feature is 'leds.cfg'. Instructions are in the file and this file does copy from the usb stick during update.

7) Ability to enter name for tournament mode. Before you play a game hold both flipper buttons in and simultaneously press both action buttons (all four at once.) This will start the enter tournament name mode. Once you are in this mode follow the instructions.

8) New files that can be updated during the USB Update Routine in the Nucore menu:

- 1) leds.cfg – for specifying which bulb sockets contain LED lights
- 2) load_screen – Nucore load screen – must be a windows .bmp image (640x480)
- 3) servers – a list of Nucore tournament servers

Nucore 2.0 Installation

- 1) Un-tar the files to an usb memory stick.
- 2) Start your Pin2K machine and enter the Nucore menu.
- 3) Run the USB update procedure and follow the instructions.
- 4) Once that's done Nucore will restart.
- 5) Run the USB update procedure one more time.
- 6) Once that's done Nucore will restart.
- 7) The first thing you will notice is a new loading screen. RFM users check the software version number by opening the coin door. The software version should now be 1.8. If you see this the update was successful.

Instructions for Tournament Mode

- 1) Verify a working Ethernet connection by:
 - A. Exiting Nucore (F1)
 - B. Login (user:root pass:nucore)
 - C. Start x-windows. type '/etc/init.d/gdm start'. Login when prompted and run Firefox. Test Ethernet by going to google.com.
- 2) Once you have verified internet access reboot the machine (turn off and on again.)
- 3) Once the machine boots enter the Nucore menu.

- 4) Select the Tournament option.
- 5) Select 'Enable Name Entry' and choose YES.
- 6) Select 'SERVER IP ADDRESS' and choose BGP.
- 7) Exit the Nucore menu.
- 8) Enter the Williams diags menu
- 9) Select Adjustments>System Adjustments>Tournament Play and select YES. Back out to the main menu.
- 10) Select Adjustments>Communications>Network.
- 11) Select Game IP Address and enter 1.0.0.1
- 12) Select Tourney IP Address and enter 1.0.0.4
- 13) Go back to the main menu and select Game Pricing. Make sure free play is set.
- 14) Exit out of the diagnostics screen and you should be in tournament mode.

You will know tournament mode is enabled and you're connected to a server if the server name appears in yellow at the top and score start scrolling from the bottom. If you don't see the scrolling scores verify that your internet connection is working again and verify all settings. It's also possible that the server you are trying to reach may not be working. We will try to keep our server status posted in the forums.

Entering Your Name for a Tournament

Nucore software does not require, nor does it currently support barcode scanners to enter your name. Before you play a game hold both flipper buttons in and simultaneously press both action buttons (all four at once.) This will start the enter tournament name mode. Follow the instructions on this screen to enter your name. When finished press both action buttons. You will need to do this before every game (this will change later.)

Troubleshooting Tournament mode and suggestions

- 1) If you don't have experience with connecting a machine to the internet through your home network find someone local to help you.
- 2) We have a support section in our forums specifically setup for Tournament mode help and support. Big Guys Pinball will not provide any telephone support for tournament mode issues. If

you have successfully connected to a server please help others in the forums with their questions.

- 3) FIREWALL – If your router has a firewall you may need to open two ports and forward them to your Nucore machine. The ports are 2069 and 2070 UDP only.
- 4) WIRELESS NETWORKING – Setting up Linux to support a wireless network connection is very tricky. We will try to find good guides online and provide links in the forum. If you have a wireless network adapter and can't connect this is most likely the problem.
- 5) If you have successfully connected to a server but can't on another occasion it's likely the server is down for a short time. Check the host's web site and/or try again later.

* NOTE - Due to the general complexity of the tournament mode and the fact that this mode was never intended for general use we cannot provide any support outside of our forums.