

# PC<sup>2</sup> for UIL Hands-On Programming Contests

## Teams Version for Remote Contests due to COVID

(Original document by John Owen, updated by Rich Brozovic for 2022)

### BEFORE THE DAY OF THE CONTEST

#### 1. Internet Support: **CONTACT YOUR ISD IT SUPPORT EARLY!**

- PC<sup>2</sup> needs access to networking port 50002 both inbound and outbound.
- Obtain your ISD's public outgoing IP address and provide it to your contest host for their networking team.
- Server's IP address, for updating **pc2v9.ini** configuration file will be provided by the contest host.
- Recommend against using domain managed computers, even if you have admin access to local machine. Group policies often block items like running batch files used by PC<sup>2</sup>!

#### 2. Install and Prepare PC<sup>2</sup> & Java:

- Download **pc2-9.7.0** from <https://pc2ccs.github.io/>. (DO NOT download later versions)
  - In left panel, select **Previous Stable Downloads** and select **Version 9.7.0** (in new version)
  - Extract all files to desired location, recommend **C:\** but it could be your desktop or documents folder. The extraction process creates a folder named **pc2-9.7.0**.
- Update your **Java JDK** if needed (PC<sup>2</sup> is built in Java), recommend latest **JDK** which can be downloaded from <https://www.oracle.com/java/technologies/java-se-glance.html>.
- Update your **User PATH** variable through your advanced system settings:
  - Add the name of the **JDK bin** folder, perhaps **C:\Program Files\Java\jdk-17.0.2\bin** (or version 14).
  - Add the name of the **PC<sup>2</sup> bin** folder perhaps, **C:\pc2-9.7.0\bin**.
  - You must be able to open a **Command Prompt** window and enter the commands: **java**, **javac**, and **pc2team** (runs **pc2team.bat**). You should get help screens for the java and javac commands and nothing for the PC<sup>2</sup> command. Any messages about an unrecognized command means the path does not contain the correct path or name. Close and reopen the **Command Prompt** window after path updates.

#### 3. Update PC<sup>2</sup> Configuration File on each computer that will connect to PC<sup>2</sup>:

- Decide upon a folder from which to launch PC<sup>2</sup>, perhaps **C:\UIL-Team**.
- The **pc2v9.ini** PC<sup>2</sup> configuration file is found in **C:\pc2-9.7.0\** (or your location of zip extraction). If your computer hides known file extensions, file name will appear as **pc2v9** with type as **Configuration settings**.
- Copy and paste it into **C:\UIL-Team** (or wherever you want to run from).
- Open **pc2v9.ini** in **Notepad** (if the lines all run together, use **WordPad**). Edit the line below "**# Site 1**", replacing only "**localhost**" with the IP address of the contest server (provided at time to connect). The line must be something like "**server=123.45.67.89:50002**".

#### 4. Participate in Contest: Coaches should provide the student data files on a flash drive.

- Open a **Command Prompt** window.
- At the DOS prompt, change your working directory by entering the command: **cd \UIL-Team** (or full path to wherever you put the **ini** file) – Windows does not care about uppercase letters.
- Enter the command: **pc2team**
- Enter your team ID as both username and password e.g.: **team0**