**PC2 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!**
   * PC2 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 PC2!
2. **Install and Prepare PC2 & 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 (PC2 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 **PC2 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 PC2 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.

1. **Update PC2 Configuration File on each computer that will connect to PC2:**
   * Decide upon a folder from which to launch PC2, perhaps **C:\UIL-Team**.
   * The **pc2v9.ini** PC2 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**”.
2. **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**