WildLog log file JSON format

The log file JSON format has two top level objects:

- ioinfo
- state

Each can have unlimited entries, but certain fields are required.

ioinfo

This object contains descriptors for each channel that is available in the log file for viewing.

As an example:

The following fields are required:

- name the name of the channel
- type the type of I/O (eg, button, joystick), informational
- direction can contain only either "Input" or "Output"
- port informational, may be empty

state

The state object contains an entry for each set of I/O state values captured. Typically this would be written to the file during each iteration of the robot code main loop.

Each entry contains a timestamp, and an array of values containing the entry for each channel.

The required fields in each entry are:

- timestamp the timestamp of the entry, as a long (milliseconds since Jan 1, 1970)
- values the array of channel values

Each item in values has three required fields:

- name the name of the channel (must match that in ioinfo)
- parent the name of the channels parent/owner (reserved for future use)
- value the current value of the channel (eg. true/false state of a button)

Example log file

```
"ioinfo":[
      {"name":"Current 0", "type": "Monitor", "direction": "Input", "port": {}},
      {"name":"Current 1", "type": "Monitor", "direction": "Input", "port": {}},
      {"name":"Current 2", "type":"Monitor", "direction":"Input", "port":{}},
      {"name":"Current 3", "type":"Monitor", "direction":"Input", "port":{}},
      {"name":"Current 4", "type": "Monitor", "direction": "Input", "port": {}},
      {"name":"Current 5", "type": "Monitor", "direction": "Input", "port": {}},
      {"name":"Current 6", "type": "Monitor", "direction": "Input", "port": {}},
      {"name":"Current 7", "type":"Monitor", "direction":"Input", "port":{}},
      {"name": "Driver button 1", "type": "Joystick
Button", "direction": "Input", "port": { "port": 0, "button": 0} },
      {"name": "Driver button 2", "type": "Joystick
Button", "direction": "Input", "port": { "port": 0, "button": 1 } },
      {"name": "Driver button 3", "type": "Joystick
Button", "direction": "Input", "port": { "port": 0, "button": 2}}
"state":[
      {
             "timestamp": "1450745183674",
             "values":[
                    {"name":"Driver button 3", "parent": "Driver button 3", "value": "false"},
                    {"name":"Driver button 2", "parent": "Driver button 2", "value": "false"},
                    {"name":"Driver button 4", "parent": "Driver button 4", "value": "false"},
                    {"name":"Driver button 1", "parent": "Driver button 1", "value": "false"},
                    {"name": "Current 3", "parent": "PDP", "value": "0.0"},
                    {"name":"Current 4", "parent": "PDP", "value": "0.0"},
                    {"name": "Rear left rotation", "parent": "Rear left
rotation", "value": "0"},
                    {"name":"Driver left X", "parent": "Driver left X", "value": "0"}
             1
      },
      {
             "timestamp": "1450745183752",
             "values":[
                    {"name":"Driver button 3", "parent": "Driver button 3", "value": "false"},
                    {"name":"Driver button 2", "parent": "Driver button 2", "value": "false"},
                    {"name":"Driver button 4", "parent": "Driver button 4", "value": "false"},
                    {"name":"Driver button 1", "parent": "Driver button 1", "value": "false"},
                    {"name":"Current 3", "parent": "PDP", "value": "0.0"},
                    {"name": "Current 4", "parent": "PDP", "value": "0.0"},
                    {"name": "Rear left rotation", "parent": "Rear left
rotation", "value": "0"},
                    {"name": "Driver left X", "parent": "Driver left X", "value": "0"}
             1
```

```
},
            "timestamp":"1450745183793",
            "values":[
                   {"name":"Driver button 3", "parent":"Driver button 3", "value":"false"},
                   {"name":"Driver button 2", "parent": "Driver button 2", "value": "false"},
                   {"name":"Driver button 4", "parent":"Driver button 4", "value":"false"},
                   {"name":"Driver button 1", "parent":"Driver button 1", "value":"false"},
                   {"name":"Current 3", "parent": "PDP", "value": "0.0"},
                   {"name":"Current 4", "parent": "PDP", "value": "0.0"},
                   {"name": "Rear left rotation", "parent": "Rear left
rotation", "value": "0"},
                   {"name":"Driver left X", "parent":"Driver left X", "value":"0"}
            ]
      }
]
}
```