Fanuc adapter software flow:

1. Entrance.

FanucAdapter.cpp L22 int main(int aArgc, const char \*aArgv[])

1. Adapter->main(aArgc, aArgv)
2. fanuc\_adapter.cpp L22 FanucAdapter::FanucAdapter(int aPort)
3. adapter.cpp L40 Adapter::Adapter(int aPort, int aScanDelay)
4. fanuc\_adapter.cpp L48 void FanucAdapter::initialize(int aArgc, const char \*aArgv[]) 初始化读取 .ini文件信息
5. L78 configMacrosAndPMC(iniFile); 设置Macro & PMC ->L137
6. L81 void FanucAdapter::start() ->startServer() adapter.cpp L227
7. Into while loop. Wait for clients to be connected.
8. Check if have any new client. L238 connectToClinet()->L206

If connected, send initial values to a client

1. Reads from clients. 🡪L197 readFromClients()
2. Get system time and push into buffer. L249 mBuffer.timestamp()
3. Gather data from machine. L250 gatherDeviceData() -->fanuc\_adapter.cpp L113 🡪innerGatherDeviceData() 🡪L91
4. Get path data L419 mPaths[i]->gatherData(mFlibhndl). 🡪fanuc\_path.cpp L253 return getProgramInfo(aFlibhndl) &&

getStatus(aFlibhndl) &&

getAxisData(aFlibhndl) &&

getSpindleData(aFlibhndl) &&

getToolData(aFlibhndl);

get NC-program, machine status, axis data, spindledata, tool data from machine by using focus API.

1. Send the values that have changed to the clients L252 🡪sendChangedData() 🡪 L333 sendBuffer()
2. Reset mBuffer L253 mBuffer.reset()
3. Cleanup mDeviceData[] L254 cleanup()
4. Sleep based on mScanDelay()