```
M) setup{7}[10961]> End of setup ###############################################################
M) oneSec{14}[11962]>  CPU: 0.00  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.0  0.0 0 /Flow: 0.0  0.0 /1Sec: 0.0  0.0 0 /
M) oneSec{14}[12962]>  CPU: 0.76  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.2 1 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[13962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[14962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[15962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[16962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[17962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[18962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[19962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[20962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[21962]>  CPU: 0.66  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[22962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[23962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
M) oneSec{14}[24962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
```
        VVVVV ------ timestamps in millis()
```
M) oneSec{14}[25962]>  CPU: 0.65  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.1  0.1 0 /
```

// change trace output from console to MQTT - 1Sec routine does a bit more work preparing & sending MQTT message--------------------V
```
aa/hfr48B8/health M) oneSec{14}[268962]>  CPU: 0.92  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[269962]>  CPU: 0.86  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.3  0.3 0 /
aa/hfr48B8/health M) oneSec{14}[270962]>  CPU: 0.96  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[271962]>  CPU: 0.92  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[272962]>  CPU: 0.86  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.3  0.3 0 /
```
// MQTT.fx command to down load a script starts, and its commands are processed by mqttBroker::processCmd(String payload)
// this consists of translating the command data and putting it into memory arrays. There's no leg movement yet.
// This command processing seems to fall under "MQTT" category
```
hfr48B8/commands NEW_FLOW
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    0,0,0,      0,0,0,     0,0,0,      0,0,0,      0,0,0,      0,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,3,0,      0,0,0,     0,0,0,      0,0,0,      0,0,0,      0,3,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     -4,0,0,     0,0,0,     0,0,0,      0,0,0,      0,0,0,      -4,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     -4,0,0,     0,3,0,     0,0,0,      0,0,0,      0,3,0,      -4,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     -4,0,0,     -4,0,0,    0,0,0,      0,0,0,      -4,0,0,     -4,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     -4,0,0,     -4,0,0,    0,3,0,      0,3,0,      -4,0,0,     -4,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     -4,0,0,     -4,0,0,    -4,0,0,     -4,0,0,     -4,0,0,     -4,0,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    -4,0,0,     -4,0,0,    -4,0,0,     -4,0,0,     -4,0,0,     -4,0,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    -4,-5,0,    -4,-5,0,   -4,-5,0,    -4,-5,0,    -4,-5,0,    -4,-5,0
aa/hfr48B8/health M) oneSec{14}[273962]>  CPU: 1.13  /Oled: 0.0  0.0 0 /MQTT: 0.2  0.1 1 /webMon: 0.6  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    -4, 0,0,    -4, 0,0,   -4, 0,0,    -4, 0,0,    -4, 0,0,    -4, 0,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    -4,2.3,0,   -4,2.3,0,  -4,2.3,0,   -4,2.3,0,   -4,2.3,0,   -4,2.3,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    -4, 0,0,    -4, 0,0,   -4, 0,0,    -4, 0,0,    -4, 0,0,    -4, 0,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    -4,-5,0,    -4,-5,0,   -4,-5,0,    -4,-5,0,    -4,-5,0,    -4,-5,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    -4, 0,0,    -4, 0,0,   -4, 0,0,    -4, 0,0,    -4, 0,0,    -4, 0,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    -4,2.3,0,   -4,2.3,0,  -4,2.3,0,   -4,2.3,0,   -4,2.3,0,   -4,2.3,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    -4, 0,0,    -4, 0,0,   -4, 0,0,    -4, 0,0,    -4, 0,0,    -4, 0,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    4.62, 9.9,0,  -4,-5,0,   4.62, 9.9,0,  -4,-5,0,   4.62, 9.9,0,  -4,-5,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0
aa/hfr48B8/health M) oneSec{14}[274962]>  CPU: 1.23  /Oled: 0.0  0.0 0 /MQTT: 0.3  0.1 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    4.62, 9.9,0,  -4,2.3,0,  4.62, 9.9,0,  -4,2.3,0,  4.62, 9.9,0,  -4,2.3,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    4.62, 9.9,0,  -4,-5,0,   4.62, 9.9,0,  -4,-5,0,   4.62, 9.9,0,  -4,-5,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0,   4.62, 9.9,0,  -4, 0,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    -4, 0,0,    -4, 0,0,   -4, 0,0,    -4, 0,0,    -4, 0,0,    -4, 0,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    -4, 0,0,    -4, 0,0,   -4, 0,0,    -4, 0,0,    -4, 0,0,    -4, 0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,3,0,      -4,0,0,    -4,0,0,     -4,0,0,     -4,0,0,     0,3,0
```

```
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,0,0,    -4,0,0,    -4,0,0,    -4,0,0,    -4,0,0,     0,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,0,0,     0,3,0,   -4,0,0,    -4,0,0,     0,3,0,     0,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,0,0,     0,0,0,   -4,0,0,    -4,0,0,     0,0,0,     0,0,0
aa/hfr48B8/health M) oneSec{14}[275962]>  CPU: 1.28  /Oled: 0.0  0.0 0 /MQTT: 0.4  0.1 0 /webMon: 0.6  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,0,0,     0,0,0,    0,3,0,     0,3,0,     0,0,0,     0,0,0
hfr48B8/commands fl,500,MLRH,10,0,0,0,     0,0,0,     0,0,0,    0,0,0,     0,0,0,     0,0,0,     0,0,0
hfr48B8/commands fl, 500,MLRH,10,0,0,0,    0,0,0,     0,0,0,    0,0,0,     0,0,0,     0,0,0,     0,0,0
hfr48B8/commands fl,1000,MLRH,10,0,0,0,    0,3.0,0,   0,3.0,0,  0,3.0,0,   0,3.0,0,   0,3.0,0,   0,3.0,0,
hfr48B8/commands DO_FLOW,1
// DO_FLOW command ends the flow definition in memory and starts its execution by the flow subsystem-----------------V
aa/hfr48B8/health M) oneSec{14}[276962]>  CPU: 1.24  /Oled: 0.0  0.0 0 /MQTT: 0.3  0.1 0 /webMon: 0.6  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[277408]>  start of flow row # 0
aa/hfr48B8/health L) do_flow{13}[277756]>  start of flow row #1
// A Delay(340) command allows for the worst case initial positioning of the servos. Time is counted against Flow----V
aa/hfr48B8/health M) oneSec{14}[277962]>  CPU: 38.76  /Oled: 0.0  0.0 1 /MQTT: 0.1  0.1 1 /webMon: 0.6  0.1 1 /Flow:37.7 35.1 /1Sec: 0.4  0.4 0 /
// rows in the arrays are executed sequentially-----------------V
aa/hfr48B8/health L) do_flow{13}[278211]>  start of flow row # 2
aa/hfr48B8/health L) do_flow{13}[278711]>  start of flow row # 3
// MQTT processing goes quiet, and the flow subsystem moves legs----------------V ------------------------------------V
aa/hfr48B8/health M) oneSec{14}[278962]>  CPU: 13.27  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 1 /webMon: 0.6  0.1 0 /Flow:12.3  0.4 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[279211]>  start of flow row # 4
aa/hfr48B8/health L) do_flow{13}[279711]>  start of flow row # 5
aa/hfr48B8/health M) oneSec{14}[279962]>  CPU: 13.26  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:12.3  0.4 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[280711]>  start of flow row # 6
aa/hfr48B8/health M) oneSec{14}[280962]>  CPU: 12.63  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:11.7  0.4 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[281710]>  start of flow row # 7
aa/hfr48B8/health M) oneSec{14}[281963]>  CPU: 12.64  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:11.7  0.3 /1Sec: 0.4  0.4 1 /
aa/hfr48B8/health L) do_flow{13}[282712]>  start of flow row # 8
aa/hfr48B8/health M) oneSec{14}[282963]>  CPU: 16.08  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:15.1  0.6 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[283213]>  start of flow row # 9
aa/hfr48B8/health L) do_flow{13}[283712]>  start of flow row # 10
aa/hfr48B8/health M) oneSec{14}[283963]>  CPU: 16.32  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:15.4  0.6 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[284713]>  start of flow row # 11
aa/hfr48B8/health M) oneSec{14}[284963]>  CPU: 15.52  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:14.6  0.6 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[285211]>  start of flow row # 12
aa/hfr48B8/health M) oneSec{14}[285963]>  CPU: 13.85  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:12.9  0.4 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[286211]>  start of flow row # 13
aa/hfr48B8/health L) do_flow{13}[286711]>  start of flow row # 14
aa/hfr48B8/health M) oneSec{14}[286963]>  CPU: 13.93  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:13.0  0.4 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[287211]>  start of flow row # 15
aa/hfr48B8/health L) do_flow{13}[287712]>  start of flow row # 16
aa/hfr48B8/health M) oneSec{14}[287963]>  CPU: 14.42  /Oled: 0.0  0.0 1 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:13.5  0.5 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[288212]>  start of flow row # 17
aa/hfr48B8/health L) do_flow{13}[288711]>  start of flow row # 18
aa/hfr48B8/health M) oneSec{14}[288963]>  CPU: 13.25  /Oled: 0.0  0.0 1 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:12.3  0.5 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[289210]>  start of flow row # 19
aa/hfr48B8/health M) oneSec{14}[289963]>  CPU: 14.87  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow:13.9  0.3 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health L) do_flow{13}[290212]>  end of multi row flow processing
// when we run out of rows to execute, everything goes quiet --------------------------------------------------------V
aa/hfr48B8/health M) oneSec{14}[290963]>  CPU: 4.89  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.6  0.1 0 /Flow: 4.0  0.5 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[291963]>  CPU: 0.92  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[292963]>  CPU: 0.91  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[293963]>  CPU: 0.91  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
aa/hfr48B8/health M) oneSec{14}[294963]>  CPU: 0.91  /Oled: 0.0  0.0 0 /MQTT: 0.0  0.0 0 /webMon: 0.5  0.1 0 /Flow: 0.0  0.0 /1Sec: 0.4  0.4 0 /
```