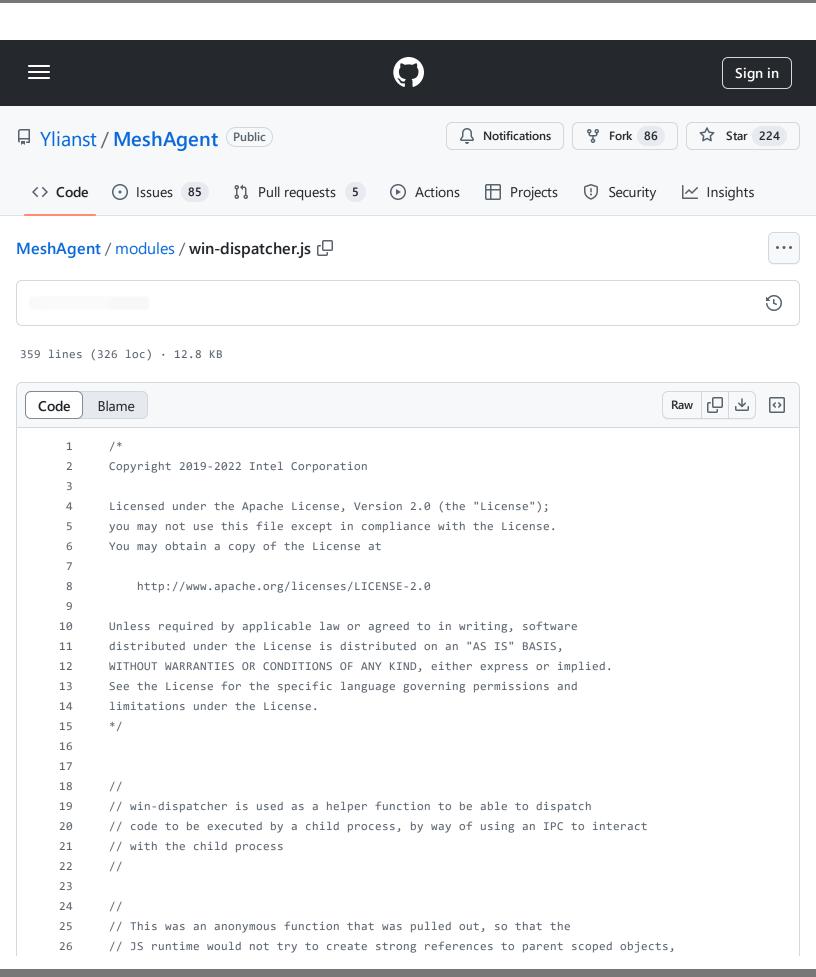
MeshAgent/modules/win-dispatcher.js at 52cf129ca43d64743181fbaf940e0b4ddb542a37 · Ylianst/MeshAgent · GitHub - 31/10/2024 19:03



```
27
       // when the anonymous function was used as a function callback
28
29 🗸
      function empty_func()
30
       {
           var p = this.parent;
31
           if (p != null)
32
33
34
               if (p._ipc) { p._ipc.parent = null };
               if (p._ipc2) { p._ipc2.parent = null; }
35
               if (p._client) { p._client._parent = null; }
36
               p. client = null;
37
               if (p._control) { p._control._parent = null; }
38
39
               p._control = null;
               p = null;
40
41
           }
       }
42
43
44
       //
       // This was an anonymous function that was pulled out, so that the
45
46
       // JS runtime would not try to create strong references to parent scoped objects,
       // when the anonymous function was used as a function callback
47
48
       //
       function empty_func2()
49
50
       {
51
       }
52
53
       //
       // This function sends a command via IPC to the child process to invoke an action
54
55
       //
       function ipc_invoke(method, args)
56
57
           var d, h = Buffer.alloc(4);
58
           d = Buffer.from(JSON.stringify({ command: 'invoke', value: { method: method, args: args } }));
59
           h.writeUInt32LE(d.length + 4);
60
           this._control.write(h);
61
           this._control.write(d);
62
63
       }
64
       function ipc1_finalized()
65
66
           //console.log('IPC1 Finalized');
67
       }
68
       function ipc2 finalized()
69
70
71
           //console.log('IPC2 Finalized');
72
       }
```

```
73
        function ipc1_server_finalized()
 74
 75
            //console.log('IPC1 Server Finalized');
 76
        }
 77
        function ipc2_server_finalized()
 78
 79
            //console.log('IPC2 Server Finalized');
 80
        }
 81
 82
        //
 83
        // Secondary Connection handler function that is called on IPC connection, to initialize some back
        function ipc2_connection(s)
 85
 86
        {
            this.parent._control = s;
            this.parent._control._parent = this;
 88
 89
            this.close();
 90
            this.parent.invoke = ipc_invoke;
 91
            s.on('end', empty_func2); // DO NOT DELETE this line!
 92
            s.on('~', ipc2_finalized);
 93
        }
 94
 95
        //
 96
        // Primary Connection handler function that is called on IPC connection, that is used to initialize
 97
        //
98
        function ipc_connection(s)
99
100
            this.parent._client = s;
            this.parent._client._parent = this;
101
102
            this.close();
            var d, h = Buffer.alloc(4);
103
            s.descriptorMetadata = 'win-dispatcher, ' + this.parent.options.launch.module + '.' + this.pare
104
105
            for (var m in this.parent.options.modules)
106
            {
107
108
                // Enumerate each module passed in, and pass it along to the child via IPC
109
                d = Buffer.from(JSON.stringify({ command: 'addModule', value: { name: this.parent.options.m
                h.writeUInt32LE(d.length + 4);
110
                s.write(h);
111
112
                s.write(d);
113
            }
114
115
            // Launch the specified module/function via IPC
116
            d = Buffer.from(JSON.stringify({ command: 'launch', value: { split: this.parent.options.launch.
            h.writeUInt32LE(d.length + 4);
117
            c write(h).
112
```

MeshAgent/modules/win-dispatcher.js at 52cf129ca43d64743181fbaf940e0b4ddb542a37 · Ylianst/MeshAgent · GitHub - 31/10/2024 19:03 https://github.com/Ylianst/MeshAgent/blob/52cf129ca43d64743181fbaf940e0b4ddb542a37/modules/win-dispatcher.js#L173

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MeshAgent/modules/win-dispatcher.js at 52cf129ca43d64743181fbaf940e0b4ddb542a37 · Ylianst/MeshAgent · GitHub - 31/10/2024 19:03				
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MeshAgent/modules/win-dispatcher.js at 52cf129ca43d64743181fbaf940e0b4ddb542a37 · Ylianst/MeshAgent · GitHub - 31/10/2024 19:03

```
285
        {
            var ipcPath = '\\\.\\pipe\\taskRedirection-' + ipc;
286
            global.ipc2Client = require('net').createConnection({ path: ipcPath + 'C' }, function ()
287
288
                //
289
290
                // This is the secondary channel, that is used as a control channel after the child operati
                //
291
                this.on('data', function (c)
292
293
                    var cLen = c.readUInt32LE(0);
294
                    if (cLen > c.length)
295
296
                    {
297
                        this.unshift(c);
298
                        return;
                    }
299
300
                    var cmd = JSON.parse(c.slice(4, cLen).toString());
301
                    switch (cmd.command)
```

```
302
                    {
303
                         case 'invoke':
304
                             global._proxyStream[cmd.value.method].apply(global._proxyStream, cmd.value.args
305
                             break;
306
                    }
307
308
                    if (cLen < c.length) { this.unshift(c.slice(cLen)); }</pre>
309
                });
310
            });
            global.ipcClient = require('net').createConnection({ path: ipcPath }, function ()
311
312
            {
                //
313
                // This is the primary IPC channel. It is used to establish/initialize what will run in the
314
315
                // It will ultimately result in a stream object being piped to whatever function is launche
316
                this.on('close', function () { process.exit(); });
317
                this.on('data', function (c)
318
319
                {
320
                    var cLen = c.readUInt32LE(0);
                    if (cLen > c.length)
321
322
                    {
323
                         this.unshift(c);
324
                         return;
325
                    }
326
                    var cmd = JSON.parse(c.slice(4, cLen).toString());
327
                    switch (cmd.command)
328
329
                         case 'addModule':
330
                             addModule(cmd.value.name, cmd.value.js);
                                                                               // Adds a JS module to the modu
331
                             break:
332
                         case 'launch':
                                                                               // Launches the specified modul
                             var obj = require(cmd.value.module);
333
334
                             global._proxyStream = obj[cmd.value.method].apply(obj, cmd.value.args);
335
                             if (cmd.value.split)
                             {
336
337
                                 global._proxyStream.out.pipe(this, { end: false });
338
                                 this.pipe(global._proxyStream.in, { end: false });
                                 global._proxyStream.out.on('end', function () { process.exit(); });
339
340
                             }
341
                             else
342
                             {
                                 global._proxyStream.pipe(this, { end: false });
343
344
                                 this.pipe(global._proxyStream, { end: false });
345
                                 global._proxyStream.on('end', function () { process.exit(); });
346
                             }
347
                             this on('end' function () { nrocess exit(). }).
```

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```
J-7,
                            () ( procession () ( procession () )
                            break;
348
349
                    }
350
                    if (cLen < c.length) { this.unshift(c.slice(cLen)); }</pre>
351
               });
352
            });
353
            global.ipcClient.on('error', function () { process.exit(); });
354
            global.ipc2Client.on('error', function () { process.exit(); });
355
356
        }
357
        module.exports = { dispatch: dispatch, connect: connect };
358
```