A Language for Programming Heterogeneous Systems

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**Features**

*Unique Behaviour*

```
main {
  toggle()
}
```

*Different Deployment*

```
outputPort HTTP {
  Location: "socket://localhost:8000"
  Protocol: http
  OneWay: toggle()
}
```

```
outputPort CoAP {
  Location: "socket://localhost:5683"
  Protocol: coap
  OneWay: toggle()
}
```

```
outputPort MQTT {
  Location: "socket://localhost:1883"
  Protocol: mqtt
  OneWay: toggle()
}
```

*a list of supported protocols:*

- TCP/IP and UDP at transport level;
- HTTP, HTTPS, SOAP, SOAP1, JSON/ RPC, XML/RPC at application level;
- JSON, XML, HTML, raw, bytes as data format

**Future Work (some inputs)**

*Bottom Up Approach*

Use this Language to automatically generate binding templates from a JSON Thing Description.

*Targeting the Things Layer*

It would be great to have such a Language for programming Constrained Devices behaviour too...

*Let's Keep in Touch!*

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If you want to know more about the JIoT project
cs.unibo.it/projects/jolie/jiot.html

If you want to know more about the Jolie Programming Language
jolie-lang.org