

## **Protocol for Inputs and Outputs using UDP**

Virtually everything is connectable to BrainDesigner using a simple UDP client. The UDP client has to listen on any port. In BrainDesigner the value “UDP Connection” of UDP inputs and outputs is set to “IP:Port”, e.g. “127.0.0.1:3000”.

When the structure is parsed, a start message is sent to the UDP client. The start message contains of the letters “START” followed by carriage return and line feed. Using this UDP package, the UDP client knows, on which IP and which port BrainDesigner listens.

From then on the UDP client triggers all steps by sending a message with all inputs; the BrainDesigner calculates the net and sends back a message with all output. For both, inputs and outputs, the format is equal: all numbers are separated by tabs (for the inputs this could be every white space character).