VisSim/UDP lets you read and write standard UDP internet packets from a VisSim block diagram using UDP Read and Write blocks.

With VisSim/UDP, you can determine the packet layout by specifying the byte offset and datatype of each element. You can choose 8, 16 or 32-bit signed and unsigned integers; 4 byte and 8 byte floats; and 16- or 32-bit scaled integers.

You can use VisSim/UDP for remote sensing, data exchange, and remote control. You can also easily log data, plot, strip chart or run a virtual plant or controller for model-based development.

To exchange UDP data with a VisSim model, you must have an internet connection, either wired or wireless. Then, with UDP Read and Write blocks wired into your diagram, you can begin exchanging data by starting a simulation.

You can transmit and receive from any number of different IP addresses in a single diagram. The UDP Read and UDP Write blocks let you read data from and write data to UDP ports. Data types and byte offset within the data packet can be quickly modified through pop-up Properties dialog boxes.

HIGHLIGHTS

- Exchange data between VisSim and any ethernet device
- User selection of up to 256 offsets into a data packet brought out to block pins
- Data types: signed and unsigned 1, 2, 4 bytes integers, 4- and 8-byte floats
- Display data exchange status
- Find transfer function equivalent
- Connect to multiple IP addresses
- Receipt of message
- Transmit timing control

We selected VisSim/UDP to help us develop inter-device UDP communication for our automated glucose measurement system. The ability to control the packet size and UDP address, and interpret the size and type of data bytes within the packet, gave us the flexibility we needed right out of the box.

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About Visual Solutions

Visual Solutions is a pioneer in the development of world-class software for modeling and simulating complex dynamic systems and for Model-Based Design of embedded systems.

VisSim is a visual environment for developing system models and performing dynamic simulations. Its unparalleled power, ease of use, and reliability has made it an essential tool on thousands of engineering projects spanning a diverse range of industries and disciplines, including motion control, closed-loop control, automotive, HVAC, aerospace, medical devices, and embedded controls development.

Since its founding in 1989, Visual Solutions has maintained a strong connection with the academic community. Visual Solutions software products have been incorporated into the curricula and research laboratories at thousands of universities and colleges. It has enhanced and improved teaching methods, learning skills, and research strategies.