

# NA62 NIOS-Based Testbench Memory Specification

TIMESTAMP WORD LOOK UP TABLE  
32bit words point to the addresses of timestamp words  
i.e. start address of DMA transfers

0x0000 0000 EMPTY WORD SEPARATOR

PACKETS DATA FORMATTED USING DEFAULT STRUCTURE  
(32bit primitive and timestamp words)

## rootToBin.C usage:

The root utility reads data from the .root files of the NA62 experiments and converts it following the table on the left.

**rootToBin ( file\_path, tree\_name, start\_timestamp, number\_of\_primitives)**

- **file\_path**: path to the .root file to be decoded
- **tree\_name**: name of the data tree (detector name e.g. IRC)
- **start\_timestamp**: offset time to drop initial data
- **number\_of\_primitives**: number of entries to read from the file

it will generate a **export\_file.bin** binary file, read it via hexdump.