REPORT

NETWORK PERFORMANCE TEST

ECONA BOARd (EVAL-RLCNS34X0MM)

# Test phase 1 – tcp stream test

# Local host

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TCP STREAM TEST - LOCAL HOST – ECONA BOARD** | | | | |
| Receive Socket Size (bytes) | Send socket size  (bytes) | Send message size  (bytes) | Elapsed time  (Sec.) | Throughput  M bits /sec |
| 87380 | 16384 | 16384 | 10.01 | 747.76 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TCP STREAM TEST - LOCAL HOST – i7 MACHINE** | | | | |
| Receive Socket Size (bytes) | Send socket size  (bytes) | Send message size  (bytes) | Elapsed time  (Sec.) | Throughput  M bits /sec |
| 87380 | 16384 | 16384 | 10.01 | 37059.07 |

## Conclusion – Test Phase 1

Throughput of TCP Stream test is usually very high on local host as it can be seen in case of the i7 machine. But Econa board did not perform up to the mark. Since it was a self test, it seems that Econa board may have some internal issues not related to the network.

# Test phase 2 – tcp stream test

# B/w i7 machine and econa board

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TCP Stream Test - from i7 machine to Econa board** | | | | |
| Receive Socket Size (bytes) | Send socket size  (bytes) | Send message size  (bytes) | Elapsed time  (Sec.) | Throughput  M bits /sec |
| 87380 | 16384 | 16384 | 10.00 | 248.55 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TCP Stream Test - from Econa board to i7 Machine** | | | | |
| Receive Socket Size (bytes) | Send socket size  (bytes) | Send message size  (bytes) | Elapsed time  (Sec.) | Throughput  M bits /sec |
| 87380 | 16384 | 16384 | 10.00 | 176.66 |

## Conclusion – Test Phase 2

Throughput was again very low than expected. These results are in conformance with the network performance tests performed by UET on Econa board.

### Third Party Test Performed by uet

PC to Board – Mean Throughput = 271.43 Mbps

Board to PC – Mean Throughput = 239.15 Mbps

# Test phase 3 – tcp stream test

# B/w two i7 machines

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TCP Stream Test – B/W two i7 machines** | | | | |
| Receive Socket Size (bytes) | Send socket size  (bytes) | Send message size  (bytes) | Elapsed time  (Sec.) | Throughput  M bits /sec |
| 87380 | 16384 | 16384 | 10.01 | 934.39 |

## Conclusion – Test Phase 3

This test was performed to verify the overall procedure of network performance tests. The results in this case were as expected and it seems that the problem is not on the software side.