

LinPAC Migration

- Performance comparison



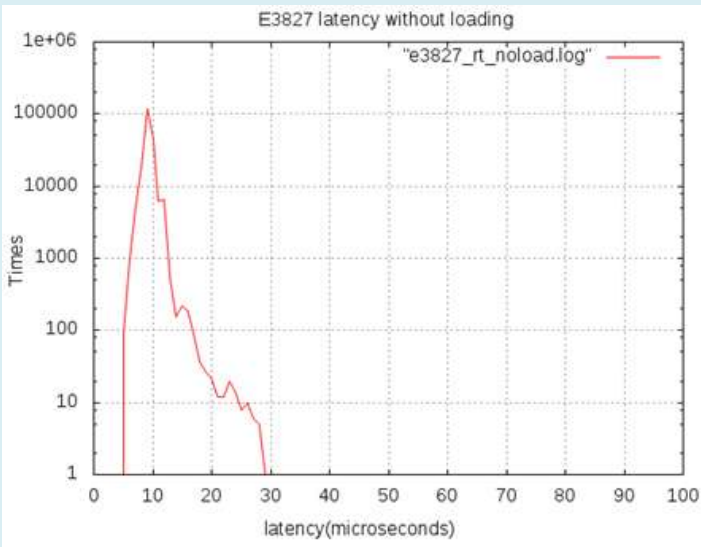
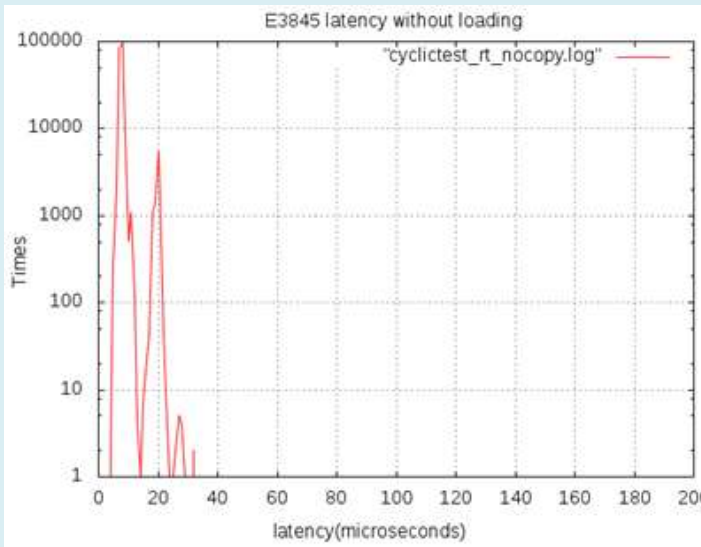
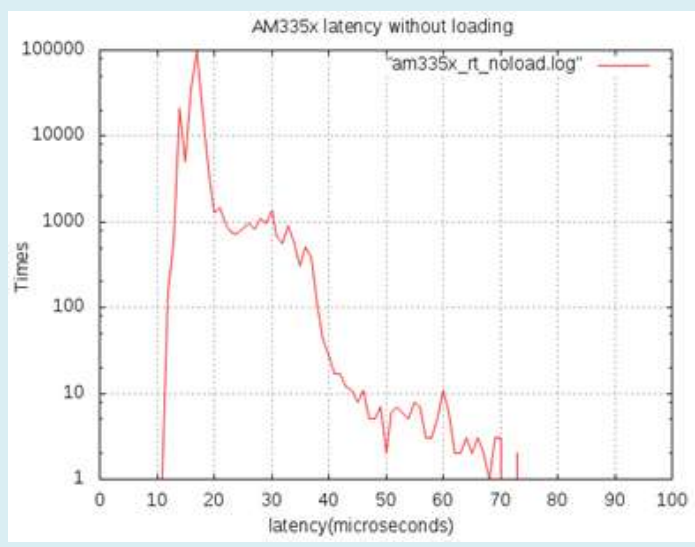
Performance Comparison for RT test

Test Environment :

1.Using software “cyclicttest” to test the RT performance in the CPU 5~10% and 40~50% loading.

2.Ubuntu Linux OS is x86/ARM(32 bits) version.

The table below provides a summary of the performance comparison for developing PAC applications.

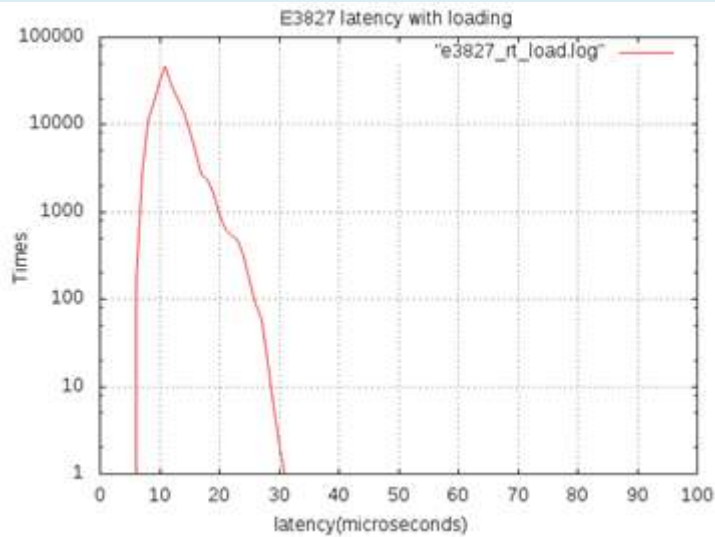
| LX-9x71(E3827) RT Kernel 4.14.12 | LX-9x71(E3845) RT Kernel 4.14.12 | LP-8x21/9x21(AM335x) RT Kernel 3.2.14 |
|--|--|---|
| CPU Loading < 5 ~ 10% | | |
|  <p>Latency Min = 5 us Latency Avg = 9 us Latency Max = 29 us</p> |  <p>Latency Min = 4 us Latency Avg = 8 us Latency Max = 32 us</p> |  <p>Latency Min = 11 us Latency Avg = 17 us Latency Max = 75 us</p> |

LX-9x71(E3827)
RT Kernel 4.14.12

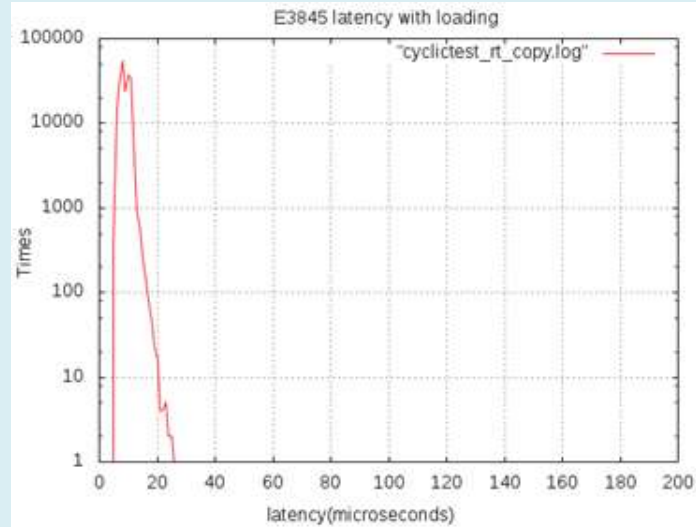
LX-9x71(E3845)
RT Kernel 4.14.12

LP-8x21/9x21(AM335x)
RT Kernel 3.2.14

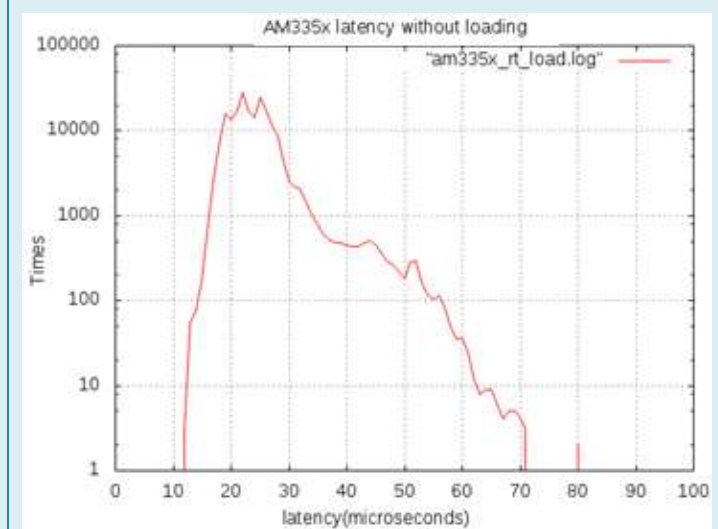
CPU Loading 40 ~ 50%



Latency Min = 6 us
Latency Avg = 11 us
Latency Max = 31 us



Latency Min = 4 us
Latency Avg = 8 us
Latency Max = 29 us



Latency Min = 12 us
Latency Avg = 24 us
Latency Max = 242 us