

Subject: : AmigaOS4

Topic: : Sam440ep Setup Tool and Update 3

Re: Sam440ep Setup Tool and Update 3

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Posted this on Hyperion forum but I believe these findings might be helpful here as well.

Due to other problems I ended up trying the entire 4.1 Update1 kickstart with Update3 (basically only the latest MUI, theme and few other things stay the same) and the findings are quite surprising:

RageMem Values with Vanilla Update 3:

CPU: AMCC PPC440EP 1.3 @ 799 Mhz

Caches Sizes: L1: 32 KB - L2: none - L3: none

Cache Line: 32

---> CPU <---

MAX MIPS: 1598

---> L1 <---

READ32: 2866 MB/Sec

READ64: 5681 MB/Sec

WRITE32: 2877 MB/Sec

WRITE64: 5685 MB/Sec

---> RAM <---

READ32: 316 MB/Sec

READ64: 316 MB/Sec

WRITE32: 199 MB/Sec

WRITE64: 199 MB/Sec

WRITE: 873 MB/Sec (Tricky)

---> VIDEO BUS <---

READ: 15 MB/Sec

WRITE: 58 MB/Sec

By adding the Sam440Set_UP in the start-up, the only improvement I get is that the VideoBus "READ" is raised to "39".

Below instead, you will find the results of the RageMem test using Update 3 but with the whole Update1 Kickstart swapped in + Sam440_SetUp (more Update1 than update3 in practice):

CPU: AMCC PPC440EP 1.3 @ 799 Mhz
Caches Sizes: L1: 32 KB - L2: none - L3: none
Cache Line: 128

----> CPU <---
MAX MIPS: 1598

----> L1 <---
READ32: 2872 MB/Sec
READ64: 5741 MB/Sec
WRITE32: 2895 MB/Sec
WRITE64: 5744 MB/Sec

----> RAM <---
READ32: 323 MB/Sec
READ64: 323 MB/Sec
WRITE32: 204 MB/Sec
WRITE64: 204 MB/Sec
WRITE: 911 MB/Sec (Tricky)

----> VIDEO BUS <---
READ: 41 MB/Sec
WRITE: 63 MB/Sec

I wonder why with the newer Kickstart the Sam440_Set up file doesn't improve the situation as strongly as it does with the older kickstart.