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Subject: : Unsatisfactory Software

Topic: : SAM460 owners - ArcEm OCM benchmarking - please help

Re: SAM460 owners - ArcEm OCM benchmarking - please help

Author: : jabirulo

Date: : 2013/3/1 14:58:03

URL:

with new ArcEm\_OCM OCM ENABLED:

SICK V1.28

(Please mail result file to [M.Seifert@t-online.de](mailto:M.Seifert@t-online.de))

.-----.  
| Result Values |  
'-----'

&00000134 &00000080 &000000A4 &00000137 &000000A0 &00000000  
&001E2B7C &00004E1E &00007FF8 &01000000 &008DCCC8 &FFFFFFFF  
&FFFFFFFF &00008000 &00000200 &00000000 &00000000 &00000000  
&036E0D4C &00000000 &00000000 &00000000 &00000000 &FFFFFFFF  
&FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF  
&FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &00000001  
&00000000 &00000000 &00000000 &00000000 &41560300 &00000003  
&00000000 &00000000 &FFFFFFFF &0000011F &000C0300 &00000000  
&00FF0000 &00000D95 &FFFFFFFF &00000001 &00000050 &FFFFFFFF  
&000000FF &00000004 &00000280 &000001E0 &00000040 &00006257  
&00118AC3 &00004000 &00C560B1 &00000064 &373B604F &0891C000  
&0080F554 &06144000 &0080539F &0566D000 &0080670E &04155000  
&00800C70 &03E67000 &00802A67 &01356000 &0080E82A

.-----.  
| Guesswork |  
'-----'

Computer model:           Acorn A3xx

.-----.  
| Processor |  
'-----'

Type:                    ARM3, rev. 0  
Architecture version:    ARMv2a  
Designer:                Acorn Computer  
Implementor:             ARM  
Manufacturer:            VLSI  
Clock rate:              2.4555 MHz

Processor bugs:

RRX: No  
Mode change: No  
LDM^: No  
LDM/STM: Yes  
STM^: No  
Istream abort: ?  
LDMIB: -  
MSR: -

Floating point handler: Old FP-Emulator  
FP emulator version: 2.87

Floating point hardware: None

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| Memory |

'-----'

DRAM size: 16 Mbytes (reported by OS)

VRAM size: 0 bytes (reported by OS)

ROM size: 2 Mbytes

Low ROM access time: 450 ns

High ROM access time: 325 ns

.-----.

| Frequencies |

'-----'

IOC timer frequency: 1.977 MHz

IOC timer 0 setting: &4E1E (100.01 Hz)

IOC timer 1 setting: &7FF8 (61.048 Hz)

Memory clock: 9.293 MHz (reported by OS)

.-----.

| System Performance |

'-----'

Integer: 2533.214 Dhrystones/sec

(1.442 Dhrystone 2.1 MIPS)

(0.587 Dhrystone 2.1 MIPS/MHz)

Floating point: 21.58340 kWhetstones/sec

(0.02158 MWIPS)

(0.00879 MWIPS/MHz)

Memory access:

Cache read: 32.45 Mbytes/sec

(13.9 bytes/CPU clock tick)

Cache write: 23.13 Mbytes/sec

(9.88 bytes/CPU clock tick)

Main memory read: 20.54 Mbytes/sec  
(2.32 bytes/Memory clock tick)  
Main memory write: 15.57 Mbytes/sec  
(1.76 bytes/Memory clock tick)

Screen memory read: 14.86 Mbytes/sec  
(1.68 bytes/Memory clock tick)  
Screen memory write: 4.578 Mbytes/sec  
(0.517 bytes/Memory clock tick)

.-----.  
| ICs |  
'-----'

Memory controller: MEMC1  
I/O chip: VL1772  
Videochip: VIDC1a (reported by RISC OS)  
Special functions chip: None  
Real time clock: Philips PCF8583  
I<sup>2</sup>C address: &A0  
Reference clock: 32.768 kHz (configured)  
LCD controller: None  
Battery management unit: None

.-----.  
| Screen mode |  
'-----'

Resolution: 640 × 480  
Colours: 256  
Refresh rate: 57.4 Hz  
VIDC clock speed: 25.175 MHz (reported by OS)

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.-----.  
| Others |  
'-----'

Unique machine ID: None  
OS version: 3.11  
OS identifier: &A4  
OS description: RISC OS 3.11 (29 Sep 1992)

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SICK V1.28

(Please mail result file to [M.Seifert@t-online.de](mailto:M.Seifert@t-online.de))

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| Result Values |  
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&00000134 &00000080 &000000A4 &00000137 &000000A0 &00000000  
&001DFD90 &00004E20 &00007FFC &01000000 &03704790 &FFFFFFFF  
&FFFFFFFF &00008000 &00000200 &00000000 &00000000 &00000000  
&036E0D0C &00000000 &00000000 &00000000 &00000000 &FFFFFFFF  
&FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF  
&FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &FFFFFFFF &00000001  
&00000000 &00000000 &00000000 &00000000 &41560300 &00000003  
&00000000 &00000000 &FFFFFFFF &0000011F &000C0300 &00000000  
&00FF0000 &00000D95 &FFFFFFFF &00000001 &00000050 &FFFFFFFF  
&000000FF &00000004 &00000280 &000001E0 &00000040 &00006257  
&00119A72 &00020000 &01022870 &00000064 &0B76362A &70A58000  
&00800DAE &4D7D8000 &00800E1A &126BA000 &00801520 &1473F000  
&00800CE1 &12B6A000 &00801383 &0359D000 &0080BBDA

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| Guesswork |  
-----

Computer model: Acorn A3xx

-----  
| Processor |  
-----

Type: ARM3, rev. 0  
Architecture version: ARMv2a  
Designer: Acorn Computer  
Implementor: ARM  
Manufacturer: VLSI  
Clock rate: 21.536 MHz

Processor bugs:

RRX: No  
Mode change: No  
LDM^: No  
LDM/STM: Yes  
STM^: No  
Istream abort: ?  
LDMIB: -  
MSR: -

Floating point handler: Old FP-Emulator

FP emulator version: 2.87

Floating point hardware: None

-----  
| Memory |  
-----

DRAM size: 16 Mbytes (reported by OS)

VRAM size: 0 bytes (reported by OS)

ROM size: 2 Mbytes

Low ROM access time: 450 ns

High ROM access time: 450 ns

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| Frequencies |  
-----

IOC timer frequency: 1.965 MHz

IOC timer 0 setting: &4E20 (99.995 Hz)

IOC timer 1 setting: &7FFC (61.041 Hz)

Memory clock: 57.69 MHz (reported by OS)

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| System Performance |  
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Integer: 15494.39 Dhrystones/sec

(8.819 Dhrystone 2.1 MIPS)

(0.409 Dhrystone 2.1 MIPS/MHz)

Floating point: 104.0061 kWhetstones/sec

(0.1040 MWIPS)

(0.00483 MWIPS/MHz)

Memory access:

Cache read: 429.5 Mbytes/sec

(20.9 bytes/CPU clock tick)

Cache write: 295.5 Mbytes/sec

(14.4 bytes/CPU clock tick)

Main memory read: 70.22 Mbytes/sec

(1.28 bytes/Memory clock tick)

Main memory write: 77.99 Mbytes/sec

(1.42 bytes/Memory clock tick)

Screen memory read: 71.34 Mbytes/sec

(1.30 bytes/Memory clock tick)

Screen memory write: 12.71 Mbytes/sec

(0.231 bytes/Memory clock tick)

.-----.  
| ICs |  
'-----'

Memory controller: MEMC1  
I/O chip: VL1772  
Videochip: VIDC1a (reported by RISC OS)  
Special functions chip: None  
Real time clock: Philips PCF8583  
I<sup>2</sup>C address: &A0  
Reference clock: 32.768 kHz (configured)  
LCD controller: None  
Battery management unit: None

.-----.  
| Screen mode |  
'-----'

Resolution: 640 × 480  
Colours: 256  
Refresh rate: 57.2 Hz  
VIDC clock speed: 25.175 MHz (reported by OS)

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| Input And Output Devices |  
'-----'

Keyboard type: Archimedes keyboard  
Layout: (configured)  
Pointer device connection: Quadrature mouse (guessed)  
Monitor type: Super-VGA-type monitor (configured)  
Monitor lead ID: Unknown (lead ID = '?')

...

.-----.  
| Others |  
'-----'

Unique machine ID: None  
OS version: 3.11  
OS identifier: &A4  
OS description: RISC OS 3.11 (29 Sep 1992)