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Subject: : Unsatisfactory Software

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

Re: SAM460 owners - ArcEm OCM benchmarking - please help

Author: : sofistisoftware

Date: : 2013/2/28 15:15:51

URL:

These are mine:

normal:

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| Processor |

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Type: ARM3, rev. 0  
Architecture version: ARMv2a  
Designer: Acorn Computer  
Implementor: ARM  
Manufacturer: VLSI  
Clock rate: 24.149 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 |

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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: 64.50 MHz (reported by OS)

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System Performance

Integer: 19449.35 Dhrystones/sec  
(11.07 Dhrystone 2.1 MIPS)  
(0.458 Dhrystone 2.1 MIPS/MHz)

Floating point: 132.0860 kWhetstones/sec  
(0.1321 MWIPS)  
(0.00547 MWIPS/MHz)

Memory access:

Cache read: 508.6 Mbytes/sec  
(22.1 bytes/CPU clock tick)  
Cache write: 322.8 Mbytes/sec  
(14.0 bytes/CPU clock tick)

Main memory read: 92.71 Mbytes/sec  
(1.51 bytes/Memory clock tick)  
Main memory write: 97.85 Mbytes/sec  
(1.59 bytes/Memory clock tick)

Screen memory read: 96.31 Mbytes/sec  
(1.57 bytes/Memory clock tick)  
Screen memory write: 15.36 Mbytes/sec  
(0.250 bytes/Memory clock tick)

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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

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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 = '?')

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Expansion Cards

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Econet

Econet network present: No

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Ethernet

Internet module version: None  
Resolver module version: None  
Ethernet driver module: None

IP address stored in CMOS RAM: 161.161.161.161  
Current IP address: None  
Ethernet IP mask: None  
Domain Name Server (DNS): None

Network drivers: None

| Others |

Unique machine ID: None

OS version: 3.11

OS identifier: &A4

OS description: RISC OS 3.11 (29 Sep 1992)

| Filing Systems |

Read Maximum	Name	only	open files	Discs	Long FS name
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8	ADFS	No	unlimited	1	Acorn ADFS
13	null	No	unlimited		<Untitled FS>
14	printer	No	unlimited		<Untitled FS>
17	vdu	No	unlimited		<Untitled FS>
18	rawvdu	No	unlimited		<Untitled FS>
19	kbd	No	unlimited		<Untitled FS>
20	rawkbd	No	unlimited		<Untitled FS>
46	Resources	Yes	unlimited		Acorn ResourceFS
47	Pipe	No	unlimited		Acorn PipeFS
53	devices	No	unlimited		Acorn DeviceFS
153	HostFS	No	100		RPCEmu Host Filing System

OCM:

| Processor |

Type: ARM3, rev. 0  
Architecture version: ARMv2a  
Designer: Acorn Computer  
Implementor: ARM  
Manufacturer: VLSI  
Clock rate: 25.379 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: 450 ns

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| Frequencies |  
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IOC timer frequency: 1.971 MHz

IOC timer 0 setting: &4E1F (100.00 Hz)

IOC timer 1 setting: &7FFD (61.039 Hz)

Memory clock: 1.337 MHz (reported by OS)

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| System Performance |  
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Integer: 19345.95 Dhrystones/sec

(11.01 Dhrystone 2.1 MIPS)

(0.434 Dhrystone 2.1 MIPS/MHz)

Floating point: 132.6741 kWhetstones/sec

(0.1327 MWIPS)

(0.00523 MWIPS/MHz)

Memory access:

Cache read: 652.5 Mbytes/sec

(27.0 bytes/CPU clock tick)

Cache write: 415.5 Mbytes/sec

(17.2 bytes/CPU clock tick)

Main memory read: 92.82 Mbytes/sec

(72.8 bytes/Memory clock tick)

Main memory write: 99.93 Mbytes/sec

(78.4 bytes/Memory clock tick)

Screen memory read: 93.87 Mbytes/sec

(73.6 bytes/Memory clock tick)

Screen memory write: 16.28 Mbytes/sec

(12.8 bytes/Memory clock tick)

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ICs

Memory controller: MEMC1a  
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

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Resolution: 640 x 480  
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Keyboard type: Archimedes keyboard  
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