

ARM / Aarch64 Virtualization is BORING!

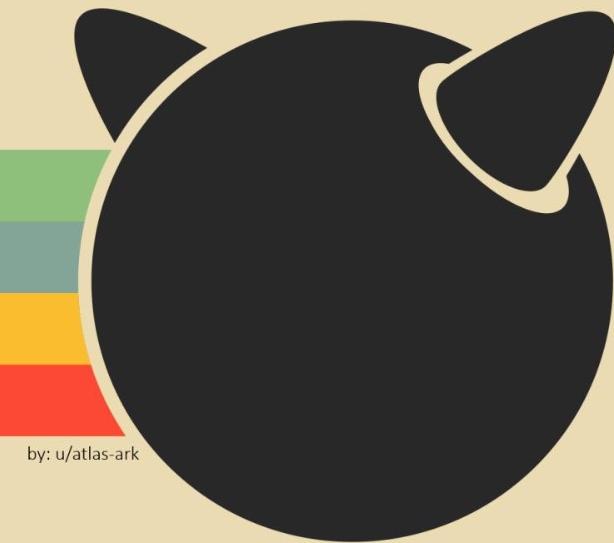


By:
Vincent Milum Jr
Darkain.com

The FreeBSD Project on Discord



discord.gg/n2wshsy



VMware ESXi™

root@vsphere.sea.darkain.info | Help | Search

Navigator

- Host**
 - Manage
 - Monitor
- Virtual Machines** 18
 - FreeNAS**
 - Monitor
 - om-openwrt
 - FreeBSD-12.2
 - Win7
 - bsd-test
 - Win10
 - bsd-test-12.2
 - FreeBSD-12.2-i386
 - More VMs...
- Storage** 11
 - naa.6589fc000000d2e...
 - vmhba64
 - tank
 - isos.sea
 - More storage...
- Networking** 7
 - vlan3-wan
 - vlan1099-testing
 - vlan8-cospix
 - vlan1-local
 - More networks...

r720.sea.darkain.info

Manage with vCenter Server | Create/Register VM | Shut down | Reboot | Refresh | Actions

r720.sea.darkain.info

Version: 6.7.0 Update 3 (Build 143203...) State: Normal (connected to vCent... Uptime: 78.55 days

CPU FREE: 50.8 GHz USED: 2 GHz CAPACITY: 52.8 GHz

MEMORY FREE: 94.42 GB USED: 201.52 GB CAPACITY: 295.94 GB

STORAGE FREE: 1.04 TB USED: 959.53 GB CAPACITY: 1.97 TB

Hardware

Manufacturer	Dell Inc.
Model	PowerEdge R720
CPU	16 CPUs x Intel(R) Xeon(R) CPU E5-2667 v2 @ 3.30GHz
Memory	295.94 GB
Persistent Memory	0 B
Virtual flash	0 B used, 0 B capacity
Networking	r720.sea.darkain.info
Storage	11 Datastores

Recent tasks

Task	Target	Initia...	Queued	Started	Result	Compl...

VMware ESXi™ on Arm Fling

root@192.168.20.158 | Help | Search

Navigator

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- Virtual Machines**
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 - sea-isos
 - sea-freebsd
 - More storage...
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 - Management Network
 - VM Network
 - More networks...

honeycomb-bsd.sea.darkain.info

[Get vCenter Server](#) | [Create/Register VM](#) | [Shut down](#) | [Reboot](#) |
[Refresh](#) | [Actions](#)

honeycomb-bsd.sea.darkain.info

Version: ESXi on Arm Fling (Build 178...)
State: Normal (not connected to any...)
Uptime: 0.79 days

CPU	FREE: 35.1 GHz
USED: 91 MHz	0%
MEMORY	FREE: 5.8 GB
USED: 9.62 GB	62%
STORAGE	FREE: 1.03 TB
USED: 944.76 GB	47%
CAPACITY: 35.2 GHz	
CAPACITY: 15.43 GB	
CAPACITY: 1.95 TB	

Hardware

Manufacturer	SolidRun Ltd.
Model	SolidRun CEX7 Platform
CPU	16 CPUs x ARM Limited Cortex-A72 r0p3
Memory	15.43 GB
SGX	0 B / 0 B
Virtual flash	2.7 GB used, 11.25 GB capacity
Networking	honeycomb-bsd.sea.darkain.info
Storage	3 Datastores

Recent tasks

Task	Target	Initia...	Queued	Started	Result	Compl...

vmware ESXi™

root@vsphere.sea.darkain.info | Help | Search

Navigator

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 - More VMs...
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 - vmhba64
 - tank**
 - Monitor
 - isos.sea
 - More storage...
- Networking** 7
 - vlan3-wan
 - vlan1099-testing
 - vlan8-cospix
 - vlan1-local
 - More networks...

tank

Register a VM | Datastore browser | Increase capacity | Refresh | Actions

STORAGE FREE: 1.03 TB 47% USED: 944GB CAPACITY: 1.95 TB

tank

Type: VMFS6
Location: /vmfs/volumes/5ea4f508-ed210abc-c96b-f4c...
UUID: 5ea4f508-ed210abc-c96b-f4c...
Hosts: 1
Virtual Mac... 17

VMFS details

Version	6.82
Local	No
Block size	1 MB
UUID	5ea4f508-ed210abc-c96b-f4ce46fd0ee8
Extent 0	naa.6589cf000000d2ebf43c94f153cd4ae, partition 1

Recent tasks

Task	Target	Initia...	Queued	Started	Result	Compl...

vmware ESXi™ on Arm Fling

root@192.168.20.158 | Help | Search

Navigator

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- Manage
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 - arm-bsd-13-release**
 - Monitor
 - More VMs...
- Storage** 3
 - tank**
 - Monitor
 - isos.sea
 - sea-freebsd
 - More storage...
- Networking** 1
 - Management Network
 - VM Network
 - More networks...

tank

Register a VM | Datastore browser | Increase capacity | Refresh | Actions

STORAGE FREE: 1.03 TB 47% USED: 944GB CAPACITY: 1.95 TB

tank

Type: VMFS6
Location: /vmfs/volumes/5ea4f508-ed210abc-c96b-f4c...
UUID: 5ea4f508-ed210abc-c96b-f4c...
Hosts: 1
Virtual Mac... 1

VMFS details

Version	6.82
Local	No
Block size	1 MB
UUID	5ea4f508-ed210abc-c96b-f4ce46fd0ee8
Extent 0	naa.6589cf000000d2ebf43c94f153cd4ae, partition 1

Recent tasks

Task	Target	Initia...	Queued	Started	Result	Compl...

vmware ESXi™

root@vsphere.sea.darkain.info | Help | Search

tank

Type: VMFS6
Location: /vmfs/volumes/5ea4f508-ed210abc-c96b-...

STORAGE FREE: 1.02 TB
USED: 955.84 GB CAPACITY: 1.95 TB

Datastore browser

Upload Download Delete Move Copy Create directory Refresh

- datastore1
- sata-ahci
- tank**
- bsd.sea
- games.sea
- isos.sea
- isos.tac
- temp
- torrents.sea
- torrents.tac
- vmx.sea

[tank] arm-bsd-12.2-installer/

Recent tasks

vmware ESXi™ on Arm Fling

root@192.168.20.158 | Help | Search

tank

Type: VMFS6
Location: /vmfs/volumes/5ea4f508-ed210abc-c96b-...

STORAGE FREE: 1.02 TB
USED: 955.84 GB CAPACITY: 1.95 TB

Datastore browser

Upload Download Delete Move Copy Create directory Refresh

- .sdd.sf
- arm-bench-oc
- tank**
- bsd.sea
- isos.sea
- arm-bsd
- arm-bsd-11.0
- arm-bsd-11.0-installer
- arm-bsd-11.4
- arm-bsd-12.2
- arm-bsd-12.2-2020...
- arm-bsd-12.2-installer**
- arm-bsd-12.2-rc1
- arm-bsd-12.2-release
- arm-bsd-13-202012...
- arm-bsd-13-alpha2
- arm-bsd-13-bench...

[tank] arm-bsd-12.2-installer/

Recent tasks

vmWare ESXi™

root@vsphere.sea.darkain.info | Help | Search

isos.sea

Type: NFS Location: /vmfs/volumes/44a44485-03cb1033

Datastore browser

Upload Download Delete Move Copy Create directory Refresh

- datastore1
- sata-ahci
- tank
- bsd.sea**
- games.sea
- isos.sea
- isos.tac
- temp
- torrents.sea
- torrents.tac
- vmx.sea

Folder	Content
1...	
1...	
1...	
11.0	
11.1	
11.2	
11.3	
11.4	
11.5	
11.6	
11.7	
11.8	
11.9	
12.0	
12.1	
12.2	
13.0	
5.4	
7.2	
7.3	

vmware ESXi™ on Arm Fling

root@192.168.20.158 | Help | Search

bsd.sea

Type: NFS Location: /vmfs/volumes/5b571635-68b3d36c

Datastore browser

Upload Download Delete Move Copy Create directory Refresh

- tank
- bsd.sea**
- isos.sea

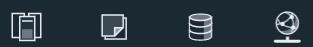
Folder	Content
10.2	
10.3	
10.4	
11.0	
11.1	
11.2	
11.3	
11.4	
11.5	
11.6	
11.7	
11.8	
11.9	
12.0	
12.1	
12.2	
13.0	
5.4	
7.2	
7.3	

[bsd.sea] 13.0/amd64/FreeBSD-13.0-RELEASE-amd64-disc1.iso

Task	Target	Initiator	Queued	Started	Result	Completed...

[bsd.sea] 13.0/arm64/FreeBSD-13.0-RELEASE-arm64-aarch64-disc1.iso

Task	Target	Initiator	Queued	Started	Result	Completed...
Rename	sea-isos	root	09/16/2021 10:10:00	09/16/2021 10:10:00	Completed successfully	09/16/2021 10:10:00
Rename	sea-freebsd	root	09/16/2021 10:10:00	09/16/2021 10:10:00	Completed successfully	09/16/2021 10:10:00
Create Nas Datastore	honeycomb-bsd.sea....	root	09/16/2021 10:10:00	09/16/2021 10:10:00	Failed - The specified ke...	09/16/2021 10:10:00

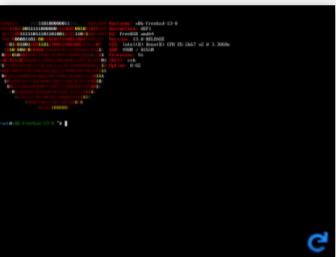


Filter

Name	State	Status	Provisioned Space	Used Space	Host CPU	Host Mem
[REDACTED]	Powered Off	✓ Normal	108.24 GB	8.9 GB	0 Hz	0 B
FreeBSD	Powered Off	✓ Normal	60.44 GB	13.01 GB	0 Hz	0 B
FreeBSD 12.1 desktop	Powered Off	✓ Normal	25.28 GB	12.36 GB	0 Hz	0 B
FreeBSD-11.4	Powered Off	✓ Normal	24.24 GB	8.67 GB	0 Hz	0 B
FreeBSD-12-STABLE	Powered Off	✓ Normal	50.25 GB	50 GB	0 Hz	0 B
FreeBSD-12.2	Powered On	✓ Normal	200.09 GB	64.35 GB	33 MHz	7.77 GB
FreeBSD-12.2-i386	Powered Off	✓ Normal	104.25 GB	36.61 GB	0 Hz	0 B
FreeNAS	Powered On	! Alert	40.09 GB	29.57 GB	0 Hz	0 B
FreeNAS	Powered On	! Alert	16.12 GB	11.96 GB	594 MHz	147.01 GB
FuryBSD-12.2	Powered Off	✓ Normal	68.25 GB	5.79 GB	0 Hz	0 B
kom-pew-pew-pew-t0r	Powered Off	✓ Normal	10.63 GB	5.3 GB	0 Hz	0 B
[REDACTED]	Powered On	? Unknown	32.09 GB	30.91 GB	0 Hz	0 B
[REDACTED]	Powered On	? Unknown	62.1 GB	57.86 GB	0 Hz	0 B
MariaDB-Galera-Fixer	Powered Off	✓ Normal	108.24 GB	10.48 GB	0 Hz	0 B
[REDACTED]	Powered On	✓ Normal	1.35 GB	1.35 GB	0 Hz	134 MB
talk-freebsd-arm	Powered On	✓ Normal	24.09 GB	6.33 GB	14 MHz	4.06 GB
twitch-bot	Powered Off	✓ Normal	21.22 GB	2.7 GB	0 Hz	0 B
vCenter	Powered On	✓ Normal	517.76 GB	115.96 GB	1.58 GHz	19.09 GB
Win10	Powered On	✓ Normal	100.09 GB	47.17 GB	33 MHz	16.08 GB
Win10	Powered On	✓ Normal	108.28 GB	26.32 GB	0 Hz	0 B
Win7	Powered On	✓ Normal	108.38 GB	30.43 GB	33 MHz	8.05 GB
Win98	Powered Off	✓ Normal	100.75 GB	3.08 GB	0 Hz	0 B
x86-freebsd-13.0	Powered On	✓ Normal	58.09 GB	15.96 GB	33 MHz	8.05 GB
Yeti-Builder	Powered Off	✓ Normal	216.21 GB	17.91 GB	0 Hz	0 B

x86-freebsd-13.0

Console Monitor | Power on Shut down Suspend Restart | Edit | Refresh | Actions

**x86-freebsd-13.0**

Guest OS FreeBSD 12 or later versions (64-bit)
Compatibility ESXi 6.7 virtual machine
VMware Tools Yes
CPUs 8
Memory 8 GB
Host name x86-freebsd-13-0

CPU 40 MHz
MEMORY 1.52 GB
STORAGE 10.93 GB

General Information**Networking**

Host name	x86-freebsd-13-0
-----------	------------------

IP addresses	1. 192.168.20.176
--------------	-------------------

VMware Tools

Installed	Yes
Version	open-vm-tools 11.3.0 build 18090558
Running	Yes

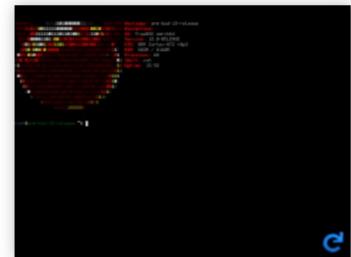
Storage

Guest Disks	Disk path	Capacity	Free
	/	45.33 GB	44.06 GB (97%)
	/tmp	44.06 GB	44.06 GB (100%)
	/zroot	44.06 GB	44.06 GB (100%)
	/usr/ports	44.06 GB	44.06 GB (100%)
	/var/log	44.06 GB	44.06 GB (100%)
	/usr/home	44.06 GB	44.06 GB (100%)
	/usr/src	44.75 GB	44.06 GB (98%)
	/var/audit	44.06 GB	44.06 GB (100%)
	/var/tmp	44.06 GB	44.06 GB (100%)
	/var/crash	44.06 GB	44.06 GB (100%)

Recent tasks

arm-bsd-13-release

Console Monitor | Power on Shut down Suspend Restart | Edit | Refresh | Actions

**arm-bsd-13-release**

Guest OS FreeBSD 12 or later versions (64-bit)
Compatibility ESXi 7.0 virtual machine
VMware Tools Yes
CPUs 16
Memory 8 GB
Host name arm-bsd-13-release

CPU 22 MHz
MEMORY 8.08 GB
STORAGE 20.28 GB

General Information**Networking**

Host name	arm-bsd-13-release
-----------	--------------------

IP addresses	1. 192.168.20.192
--------------	-------------------

VMware Tools

Installed	Yes
Version	open-vm-tools 11.3.0 build 18090558
Running	Yes

Storage

Guest Disks	Disk path	Capacity	Free
	/	93.5 GB	91.7 GB (98%)
	/tmp	91.7 GB	91.7 GB (100%)
	/zroot	91.7 GB	91.7 GB (100%)
	/var/mail	91.7 GB	91.7 GB (100%)
	/var/log	91.7 GB	91.7 GB (100%)
	/usr/obj	91.7 GB	91.7 GB (100%)
	/var/tmp	91.7 GB	91.7 GB (100%)
	/var/crash	91.7 GB	91.7 GB (100%)
	/usr/home	91.7 GB	91.7 GB (100%)
	/usr/ports	91.7 GB	91.7 GB (100%)

Recent tasks

BUS	ID / Class	Vendor	Device	Type	Driver	Status
PCI	15ad:0405:15ad:0405 i / 03-00-00	VMware	SVGA II Adapter	graphics card	vgapci	detected
PCI	15ad:07b0:15ad:07b0 i / 02-00-00	VMware	VMXNET3 Controller	Ethernet	network	vmx
PCI	1000:0054:15ad:1976 i / 01-07-00	Broadcom LSI	SAS1068 PCI-X Fusion-MPT SAS	storage	mpt	works
PCI	15ad:07e0:15ad:07e0 » / 01-06-01	VMware	SATA AHCI controller	storage	ahci	detected
PCI	8086:7111:15ad:1976 i / 01-01-8a	Intel Corporation	82371AB/EB/MB IDE	PIIX4	storage	atapci
PCI	15ad:0790:15ad:0790 » / 06-04-01	VMware	PCI bridge	bridge	pcib	detected
32x	PCI 15ad:07a0:15ad:07a0 » / 06-04-00	VMware	PCI Express Root Port	bridge	pcib	detected
PCI	8086:7110:15ad:1976 i / 06-01-00	Intel Corporation	82371AB/EB/MB ISA	PIIX4	bridge	isab
PCI	8086:7113:15ad:1976 i / 06-00-00	Intel Corporation	82371AB/EB/MB ACPI	PIIX4	bridge	intsmb
PCI	8086:7190:15ad:1976 i / 06-00-00	Intel Corporation	440BX/ZX/DX 82443BX/ZX/DX bridge	Host	bridge	hostb
PCI	8086:7191 » / 06-04-00	Intel Corporation	440BX/ZX/DX 82443BX/ZX/DX bridge	AGP	bridge	pcib
PCI	15ad:0740:15ad:0740 i / 08-00-00	VMware	Virtual Communication Interface	Machine	system peripheral	vmci
PCI	15ad:0770:15ad:0770 » / 0c-03-20	VMware	USB2 EHCI Controller	usb controller	ehci	detected
PCI	15ad:0774:15ad:1976 » / 0c-03-00	VMware	USB1.1 Controller	UHCI	usb controller	uhci
USB	0eof:0002 » / 09-00-00	VMware	Virtual USB Hub	hub	uhub	detected
USB	1d6b:0001 » / 09-00-00	BSD	1.1 root hub	hub	uhub	detected
USB	1d6b:0002 » / 09-00-00	BSD	2.0 root hub	hub	uhub	detected
USB	0eof:0003 » / 03-00-00	VMware	Virtual Mouse	human interface	uhid	detected
SYS	vmware-vmw71-00V-13989454-b64-1906190538-06-19-2019	VMware, Inc.	BIOS VMW71.00V.13989454.B6 4.1906190538 06/19/2019	bios	-	works
8x	SYS intel-xeon-e5-2667-v2	Intel	Xeon CPU E5-2667 v2 @ 3.30GHz	cpu	-	works
SYS	vmware-virtual-ram-vmw-8192mb-dimm [5F7]	VMware Virtual RAM	RAM VMW-8192MB 8GB DRAM	memory	-	works
SYS	intel-440bx-desktop-reference-platform	Intel Corporation	Motherboard 440BX Desktop Reference Platform	motherboard	-	works

BUS	ID / Class	Vendor	Device	Type	Driver	Status
PCI	15ad:0406:15ad:0406 » / 03-00-00	VMware		graphics card	vgapci	detected
PCI	8086:10d3:15ad:07d0 » / 02-00-00	Intel	82574L Network Connection	Gigabit	network	em
PCI	15ad:07c0:15ad:07c0 i / 01-07-00	VMware	PVSCSI Controller	SCSI	storage	pvscsi
PCI	15ad:07e0:15ad:07e0 » / 01-06-01	VMware	SATA AHCI controller	storage	ahci	detected
PCI	15ad:0790:15ad:0790 » / 06-04-01	VMware	PCI bridge	bridge	pcib	detected
32x	PCI 15ad:07a0:15ad:07a0 » / 06-04-00	VMware	PCI Express Root Port	bridge	pcib	detected
PCI	15ad:1976:15ad:1976 » / 06-00-00	VMware		bridge	hostb	detected
PCI	15ad:0740:15ad:0740 i / 08-00-00	VMware	Virtual Communication Interface	Machine	system peripheral	-
PCI	15ad:0779:15ad:0779 » / 0c-03-30	VMware	USB3 Controller	xHCI	1.0 usb controller	xhci
2x	USB 0eof:0002 » / 09-00-00	VMware	Virtual USB Hub	hub	uhub	detected
USB	1d6b:0003 » / 09-00-00	BSD	3.0 root hub	hub	uhub	detected
USB	0eof:0003 » / 03-00-00	VMware	Virtual Mouse	human interface	uhid	detected
USB	0eof:0006 » / 03-01-01	VMware	Virtual Keyboard	keyboard	ukbd	detected
16x	SYS arm-cortex-a72-r0p3 »	ARM	Cortex-A72 r0p3	cpu	-	works
SYS	ram-modules-8gb-dimm »		RAM Module(s) DIMM	8GB	memory	-
SCSI	necvmwar-vmware-sata-cd01 »		NECVMWar	VMware SATA CD01	cdrom	cd, ahcich
IDE	vmware-virtual-disk	VMware	Virtual disk 112GB	disk	da, pvscsi	detected
Logs (32)						
Board	Boot	Drive				
Dmi decoded	Uptime	Scanned for				

[Vincent Milum Jr](#) 2021-09-16 23:11:07 UTC

[Description](#) [\[reply\]](#) [\[-\]](#)

vm_guest is never set on Aarch64, tested on ESXi ARM Fling

```
sysctl kern.vm_guest  
kern.vm_guest: none
```

On AMD64 using ESXi, we have

```
sysctl kern.vm_guest  
kern.vm_guest: vmware
```

Comparing these two files, there is no reference to vm_guest on Aarch64

<https://github.com/freebsd/freebsd-src/blob/main/sys/x86/x86/identcpu.c>
<https://github.com/freebsd/freebsd-src/blob/main/sys/arm64/arm64/identcpu.c>

<input checked="" type="checkbox"/>	 326971a854 5e:91:3e:87:70:cd	aarch64-freebsd-12.2 (description)	 10.2.2.57  10.2.2.x	UNKNOWN	1.6.0	UNKNOWN	 
<input checked="" type="checkbox"/>	 57a67eee18 5e:f4:f1:88:36:81	test-9d66d87 THIS COMMIT BROKE	 10.2.2.65  10.2.2.x	UNKNOWN	1.6.1	UNKNOWN	 
<input checked="" type="checkbox"/>	 57ad924769 5e:f4:fa:64:9f:f0	armv6-freebsd-12.2 (description)	 10.2.2.70  10.2.2.x	UNKNOWN	1.6.0	UNKNOWN	 
<input checked="" type="checkbox"/>	 664ea35078 5e:c5:19:55:88:e1	arm-zerotier-02 (description)	 10.2.2.61  10.2.2.x	29D 2H 57M	1.5.1		 
<input checked="" type="checkbox"/>	 6d87fd0ab1 5e:ce:d0:0b:d2:28	armv7-freebsd-12.2 (description)	 10.2.2.81  10.2.2.x	UNKNOWN	1.6.0	UNKNOWN	 
<input checked="" type="checkbox"/>	 6fecf7f896 5e:cc:bb:01:20:0f	i386-freebsd-12.2 (description)	 10.2.2.50  10.2.2.x	UNKNOWN	1.6.2	UNKNOWN	 
<input checked="" type="checkbox"/>	 8a96a0c853 5e:29:c1:56:10:ca	arm-zerotier-01 (description)	 10.2.2.53  10.2.2.x	16D 0H 9M	1.5.1		 

vmware ESXi™

x86-freebsd-13.0

Console Monitor | Power on Shut down Suspend Restart | Edit Refresh | Actions

x86-freebsd-13.0

Guest OS FreeBSD 12 or later versions (64-bit)
Compatibility ESXi 6.7 virtual machine
VMware Tools Yes
CPUs 8
Memory 8 GB

CPU 43 MHz
MEMORY 8 GB
STORAGE

x86-freebsd-13.0

Fri 17 Sep, 02:53 Charlie Root

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vmware ESXi™ on Arm Fling

root@192.168.20.158 | Help | Search

arm-bsd-13-release

Console Monitor | Power on Shut down Suspend Restart | Edit Refresh | Actions

arm-bsd-13-release

Guest OS FreeBSD 12 or later versions (64-bit)
Compatibility ESXi 7.0 virtual machine
VMware Tools Yes
CPUs 16
Memory 8 GB

CPU 2 GHz
MEMORY 8.09 GB
STORAGE

arm-bsd-13-release

Fri 17 Sep, 02:53 Charlie Root

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Recent tasks

x86-freebsd-13.0

Console Monitor | Power on Shut down Suspend Restart | Edit Refresh | Actions

x86-freebsd-13.0

Guest OS FreeBSD 12 or later versions (64-bit)
Compatibility ESXi 6.7 virtual machine
VMware Tools Yes
CPUs 8
Memory 8 GB

CPU 43 MHz
MEMORY 8 GB
STORAGE

x86-freebsd-13.0

Applications Firefox

The FreeBSD Project — Mozilla Firefox

The FreeBSD Project

Firefox

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Recent tasks

arm-bsd-13-release

Console Monitor | Power on Shut down Suspend Restart | Edit Refresh | Actions

arm-bsd-13-release

Guest OS FreeBSD 12 or later versions (64-bit)
Compatibility ESXi 7.0 virtual machine
VMware Tools Yes
CPUs 16
Memory 8 GB

CPU 2 GHz
MEMORY 8.09 GB
STORAGE

arm-bsd-13-release

Applications Firefox

EuroBSDCon — Online - September 17-19, 2021 - Mozilla Firefox

EuroBSDCon - Online - S

https://2021.eurobsdcon.org

EuroBSDCon

About Mozilla Firefox

Firefox Browser

Extended Support Release
78.14.0esr (64-bit) [What's new](#)
Firefox is designed by Mozilla, a global community working together to keep the Web open, public and accessible to all.

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Online - September 17-19, 2021

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Recent tasks

vmware ESXi™

root@vsphere.sea.darkain.info | Help | Search

x86-freebsd-13.0

Console Monitor | Power on Shut down Suspend Restart | Refresh Actions

x86-freebsd-13.0

Guest OS FreeBSD 12 or later versions (64-bit)
 Compatibility ESXi 6.7 virtual machine
 VMware Tools Yes
 CPUs 8
 Memory 8 GB

CPU 43 MHz
 MEMORY 8 GB
 STORAGE

x86-freebsd-13.0

Applications Terminal - x86-freebsd-13.0:/usr/src

Fri 17 Sep, 03:18 Charlie Root

```
File Edit View Terminal Tabs Help

unknown-pragmas -Wno-error-tautological-compare -Wno-error-empty-body -W
no-error-parentheses-equality -Wno-error-unused-function -Wno-error-poi
nter-sign -Wno-error-shift-negative-value -Wno-address-of-packed-member
-Wno-format-zero-length -Wno-aes -Wno-avx -std=iso9899:1999 -Werror
vers.c
ctfconvert -L VERSION -g vers.o
--- kernel.full ---
linking kernel.full
ctfmerge -L VERSION -g -o kernel.full ...
    text      data      bss      dec      hex   filename
  22732287  1804890  4480128  29017305  0x1bac4d9  kernel.full
--- kernel.debug ---
objcopy --only-keep-debug kernel.full kernel.debug
--- kernel ---
objcopy --strip-debug --add-gnu-debuglink=kernel.debug kernel.full ker
nel
-----
>>> Kernel build for GENERIC completed on Fri Sep 17 03:09:39 UTC 2021
-----
>>> Kernel(s) GENERIC built in 321 seconds, ncpu: 8, make -j8

real 320.92
user 2181.53
sys 206.20
root@x86-freebsd-13.0 /usr/src#
```

vmware ESXi™ on Arm Fling

root@192.168.20.158 | Help | Search

arm-bsd-13-release

Console Monitor | Power on Shut down Suspend Restart | Refresh Actions

arm-bsd-13-release

Guest OS FreeBSD 12 or later versions (64-bit)
 Compatibility ESXi 7.0 virtual machine
 VMware Tools Yes
 CPUs 16
 Memory 8 GB

CPU 2 GHz
 MEMORY 8.09 GB
 STORAGE

arm-bsd-13-release

Applications Terminal - arm-bsd-13-r.../usr/src

Fri 17 Sep, 03:18 Charlie Root

```
File Edit View Terminal Tabs Help

p.o imx7gpc.o if_fffec.o tegra210_xusb_fw.o tegra210_xusb.fwo config.o
env.o hints.o vnode_if.o hack.pico vers.o; objcopy --wildcard --stri
p-symbol='[$adtx]*' kernel.full
ctfmerge -L VERSION -g -o kernel.full ...
    text      data      bss      dec      hex   filename
  11080781  1716595  3665920  16463296  0xfb35c0  kernel.full
--- kernel.debug ---
--- kernel.bin ---
--- kernel.debug ---
objcopy --only-keep-debug kernel.full kernel.debug
--- kernel ---
objcopy --strip-debug --add-gnu-debuglink=kernel.debug kernel.full ker
nel
--- kernel.bin ---
created kernel.bin from kernel.full
-----
>>> Kernel build for GENERIC completed on Fri Sep 17 03:11:28 UTC 2021
-----
>>> Kernel(s) GENERIC built in 402 seconds, ncpu: 16, make -j16

real 404.91
user 5008.66
sys 693.00
You have new mail.
root@arm-bsd-13-release /usr/src#
```

```
root@bsd-m1-test /compat/linux# cat etc/os-release
NAME="CentOS Linux"
VERSION="7 (AltArch)"
ID="centos"
ID_LIKE="rhel fedora"
VERSION_ID="7"
PRETTY_NAME="CentOS Linux 7 (AltArch)"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:centos:centos:7:server"
HOME_URL="https://www.centos.org/"
BUG_REPORT_URL="https://bugs.centos.org/"
```

```
CENTOS_MANTISBT_PROJECT="CentOS-7"
CENTOS_MANTISBT_PROJECT_VERSION="7"
REDHAT_SUPPORT_PRODUCT="centos"
REDHAT_SUPPORT_PRODUCT_VERSION="7"
```

```
root@bsd-m1-test /compat/linux# ./bin/uname -a
Linux bsd-m1-test 3.17.0 FreeBSD 13.0-RELEASE #0 releng/13.0-0-n244733-ea31abc261f: Fri Apr arm64 arm64 arm64 GNU/Linux
root@bsd-m1-test /compat/linux# ./bin/bash --version
GNU bash, version 4.2.46(2)-release (aarch64-redhat-linux-gnu)
Copyright (C) 2011 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
```

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There is NO WARRANTY, to the extent permitted by law.

```
root@bsd-m1-test /compat/linux# ./bin/aarch64-redhat-linux-gcc --version
aarch64-redhat-linux-gcc (GCC) 4.8.5 20150623 (Red Hat 4.8.5-44)
Copyright (C) 2015 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

```
root@bsd-m1-test /compat/linux# ./sbin/fsck --help
fsck from util-linux 2.23.2
root@bsd-m1-test /compat/linux# ./bin/echo "Linuxulator on Aarch64 is AWESOME! ... pssssttt Join our Discord ;) https://discord.gg/n2wshsy"
Linuxulator on Aarch64 is AWESOME! ... pssssttt Join our Discord ;) https://discord.gg/n2wshsy
root@bsd-m1-test /compat/linux#
```

▼ ⌂ 2 ■■■■■ graphics/linux-c7-sdl_ttf/Makefile □

Viewed

...

↑ @@ -11,7 +11,7 @@ DISTNAME= SDL_ttf-\${DISTVERSIONFULL}

11 MAINTAINER= emulation@FreeBSD.org
12 COMMENT= Simple library to load True Type Fonts
as SDL interfaces (Linux CentOS \${LINUX_DIST_VER})
13

14 - ONLY_FOR_ARCHS= amd64

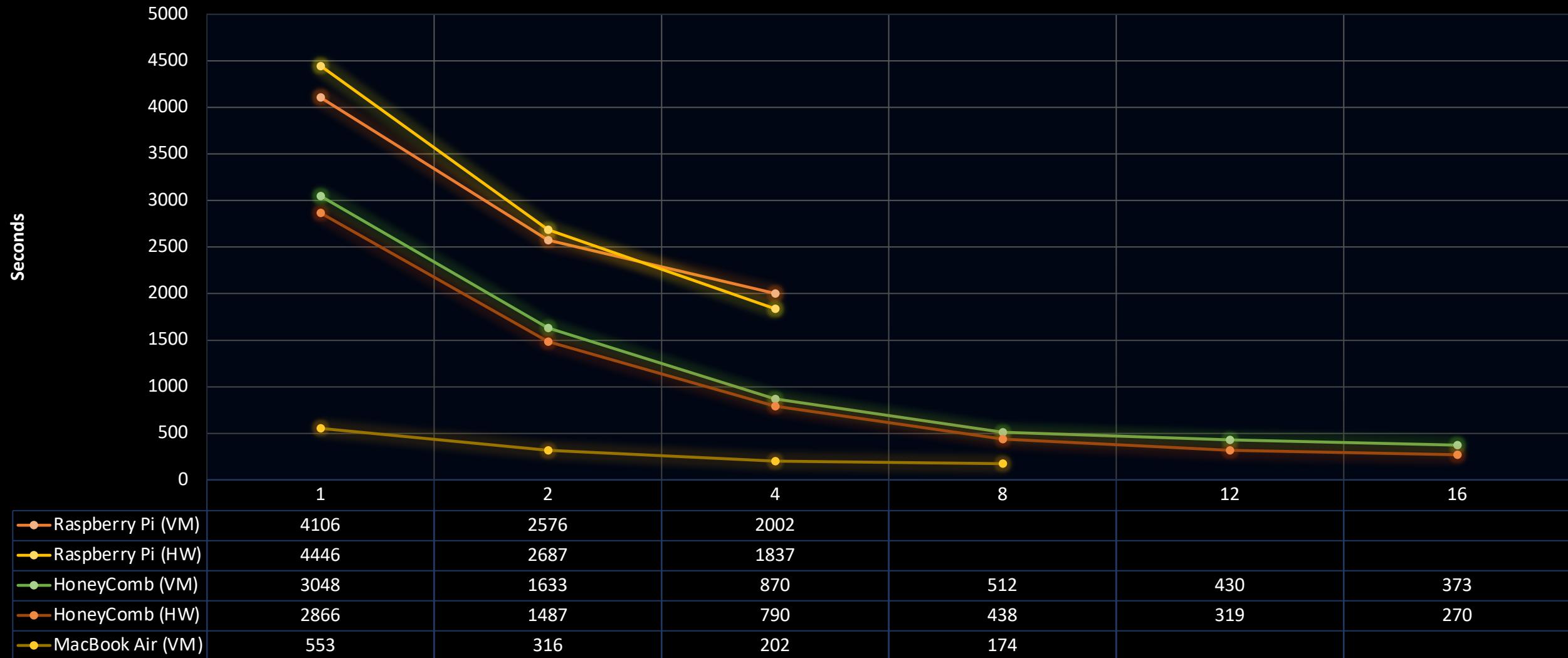
15
16 USES= linux:c7
17 USE_LDCONFIG= yes

11 MAINTAINER= emulation@FreeBSD.org
12 COMMENT= Simple library to load True Type Fonts
as SDL interfaces (Linux CentOS \${LINUX_DIST_VER})
13

14 + ONLY_FOR_ARCHS= amd64 aarch64

15
16 USES= linux:c7
17 USE_LDCONFIG= yes

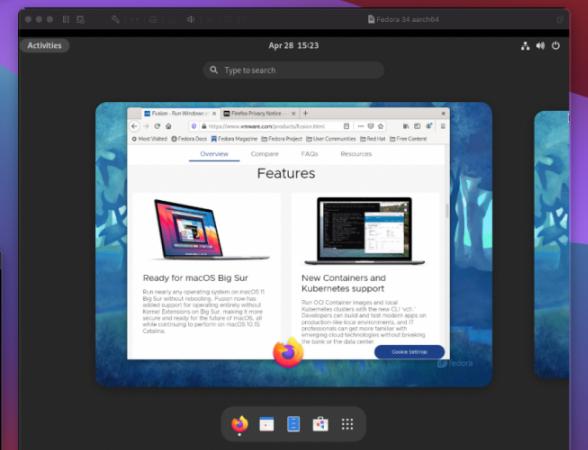
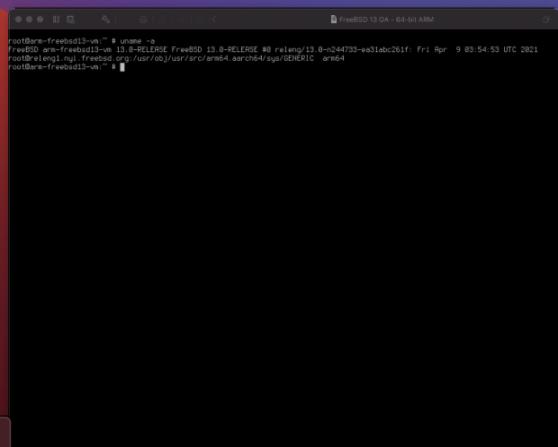
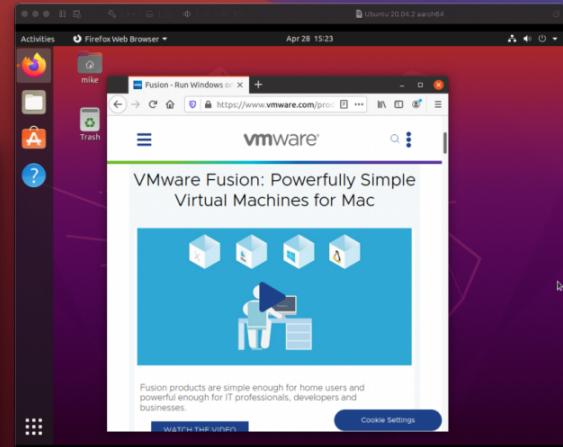
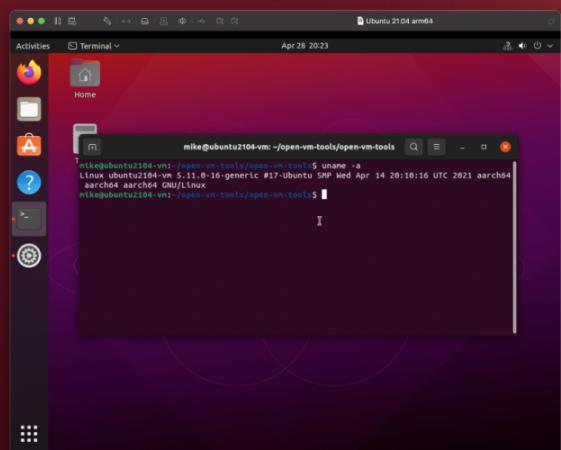
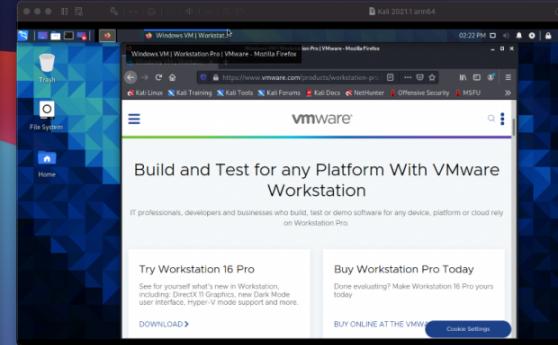
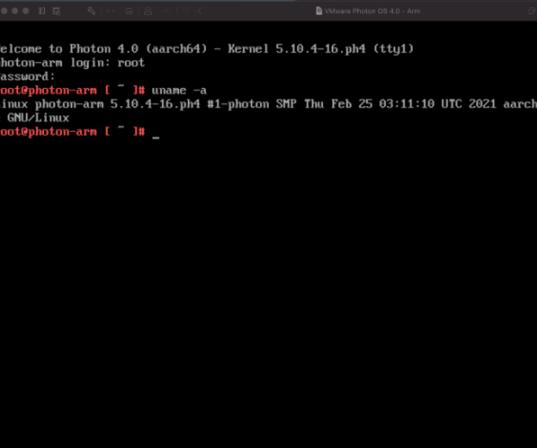
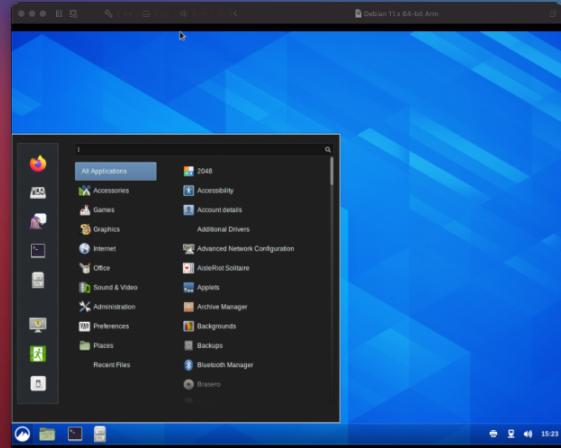
make buildkernel -j



+



Desktop



VMware Fusion Tech Preview

