

LIVE SMAPSHOTS

MOVITOR:

- CONT
- GUEST-FSFREEZE-FREEZE
- SNAPSHOT_BLKDEV (SNapfile) (formet)
- GUBST FSFREGAE-THAW

HMP:

-SNAPSHOT_BLKDEU (dev) (snap) (format).

vdø

/var/Liblibuirt/...

QMP:

-BLOCKDEN-SNAPSHOT-SYNC <olev) (SNAP) (FORMAT)

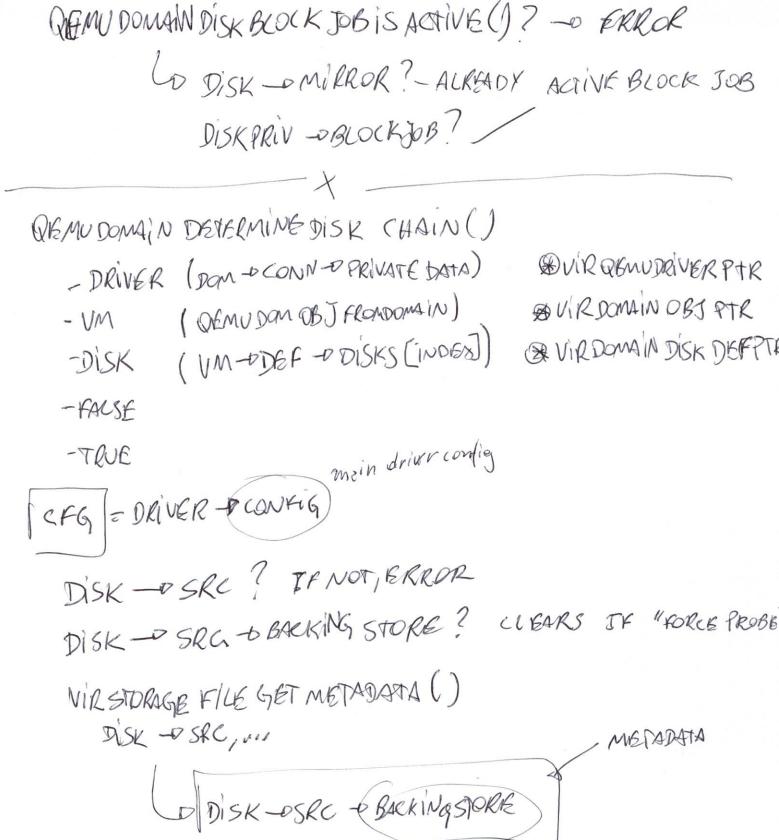
REPRESENTS THE DOMAIN VIRDOMINPTR (DOM VIRCONNECT PTR (EONN) NAME PATH ID LO REPRESENT DIVU CONVECTIO BASE 70 HYPERWSOR HOP DONN : (AFTER OPEN, MEVER CHANGE) BANDU -FLAGS FLAGS - VIRURIPTR - VIR HYPERVISOR DRIVER PTR DRIVER NETWORKDRIVER -VIRNETWORK DRIVER DTR - VIR INTERFACE TRIVER PTR - VIR STORAGE DRIVER PTR STORAGE DRIVER - VIR NODE DEVICE DRIVER PTR -VIR SECRET DRIVER AR - VIRNW FLOGR DRIVER PTR - RIVATEDATA; LOCK NEEDED -VIRERROR -VIRERROR FUNC -USERDATA

DEVICE = NULL	VIR QEM	UDRIVER PTR	- DRIVER
TOPPATH = NUCL	VIR DOMAI	IN OBJ PTR -	-VM)
BASE PATH = NULL	VIR STORA	GESORCEPTR	2 - BACE SOURCE
BOCKIN GRATH = NULL			TOP PARENT
			MIRROR
		AN OBJ PRIVATE P	TR - PRIV
VIR DOMAIN DISK DEFPTI	2-Disk		
IM & QEMU DOM OST	FROM DONAIN	() Domai	N-OCONN-OPRIVATE VIRQUINURIUGRATE
	IN OBJLISTFING		
O VIRDOMAIN OBJ	PTR 3		DEF
- PARENT	- AUTO START - PERSISTENT		N DEFPTR NEW DEF
- COND -PID	-UPDATED	INR DOMAINS	MAPS HOTOBILIST PTR
- STATE	- Renewy		LSNAPSHOTS
-HASMANDGED	SAVE	(Wedomains	ABHOTOBJPTR
-PRIVATEDA			CCUERENT_SNAPSHOOT
-PRIVATEDAY	afreefunc		
TU/AT-			
- ORIGINAL M	EM LOCK		

VIR DOMAIN IS ACTIVE (VM)
LO LIED DOMAIN OBJATR DOM
DOM DEF 7 ID + -1
Lo VIRDOMAINDEFFTR
VIR QEMU CAPSGET () PRIV D QEMULAPS
QEMUCARS BLOCK JOBAS YNC) TO ON LINE COMMIT NOT SUPPORTED
VIR ROMAIN DISKDERPTR DISK = QEMU DOMAIN DISKBYNAME (VM-DDEF, PATH)
VIRSTORAGESOURCEPTR 3RC UIRSTORAGESRCPTR MIRROR PRIVATE TATA MIRROR STATE
PRIVATE DATA MIRROR STATE
DEVICE MIRROR JOB
BUS DET SERIAL
TRAY_STATUS WWN VENDOR
REMOVABLE PRODUCT
**1
VIR DOMAIN DISK BYNAME
VIRDOMAIN DISK INDEXBYNAME
RET DEF-ODISKS (INDEX)
VIRDOMAN DISK DEF PAR

of GUEST VIII MATIN CONFIG

- SRC JOPATH = GRROR VIRDOMAIN PISK DEFPTR TURSTORAGE SOUR ERPTRO -TYPE -NHOSTS - READONLY - DRI VERNAMB - SHARED -PATH -PROTOCOL 111 - VOLUME (VOL NAME) - SNAPGHOT VIRSTOPAGE DRIVER DATA PTR - CONFIGFILE DRV VIRSTORAGE SOURCEPTR BACKING STORIE



N DOMAIN DISK DER IF TOP IS NOT PROVIDED ? o STORAGEBRC - TOP SOURCE = DISIZ -9 SRC -0 coming from VM-DOEF + PATH DEF- DISKSLINDEX] ELSE (AND if ...) STORAGE FILE PARSE CHAIN INDEX (DISK + DST, TOP INDEX) CHAR TARGET, CHAR NAME, INDES COPARSE FILE[7] TOP_SOURCE = VIR STORAGE FILE CHAIN COOKUPL) DISK-PSRC (CHAIN) (STARTFROM) NULL (NAME) TOPINDEX (INDEX) TOP PARENT (PARENT) BUTINE E RRCK IF TOBOURCE = DISK-DSRC __ DACTIVE 40 CHBCK QEMUCAPSAGINE COMMIT LO CHRIK ! VIR DOMAIN BLOCK COMMIT ACTIE ECSE IF VIR DOVAIN BLOCK COMMIT ACTIVE SO ACTIVE REQUESTED BUT NOT ACTIVE 000 IF NO TOBOURCE + BACKING STORE - DERROR

VIR HYPBRUSOR DRIVER	QEMUH PERVISOR DRIVER
NAME = QEMU	-DRIVER-NAME
, CONNECT OPEN	
, CONNECT CLOSE	
111	
DOMAIN CREATEX	ML -
. Domain Lookup &	34 iD
, DOMAIN SUSPEND	
, DOMAIN RESUMS	
, Donain Beack	JOB ABORT
Domain Block Jo.	B SETSPEED
· DOMAIN BLOCK P	
, DOMAIN BLOCK R	
DONAN BLOCK CO	
TOMAIN BLOCK CO	Logo and Logo and Marine
TOWAR DECK	
(DOM, DISK, BASE, MOP, BW, FLAGIS)	1 ()
(DOM, DEK, BASE, TOP, BW, FLACTS) VIR DOMAIN BLOCK COMMIT IN DR	I'VER-DOMAINBLOCK CONVITTE
VIK TOWALLA DESCLETO	
MN Martina	
CMD BLOCK COMMIT () VS7	+COMMANDRUN()
VSHEMD DEF DOM MANAGEMENT	TCMDSEJ
MAME = BLOCK COMMIT	WELL VSHCMDOPIDER
, HANDLER = CMD BLOCK CO	MMIT DESC
OPTS = OPTS RICK-10	omnity & verbose v BASE
PTS = OPTS_BLOCK-CO	ommit primeaut too
, FLAGS = 0	opinot a top
(· · · · · · · · · · · · · · · · · · ·	V ASYNC

VIRSH- DOMAIN. C CMD BLOCK COMMIT () VIR_DOMAIN_BLOCK-JOB_ABORTLAS JOB_ABORTPILLO ASYNC X PIVOT DOM = VIRSHCMDOPTDOM) AMP BLOCKING? - O VIRSHBOOKJOB WAITINIT () VIR DOMAINBLOCK COMMIT BOOK () - of LIBVIRT-DOMANN, C) + COUN = DOM + CONN CONN PORIVER -DOMAINBLOCK COMMIT () QEMU 11 QEMU DONAIN BLOCK COMMITCO - O QEMU-DRIVERA

VIRDOMAIN BLOCK COMMIT OBASE A OTOP MERGE

- STARTS COMMIT BLOCKJOB
- TRACK JOB WITH VIRDOMAIN BLOCKJOBINGO

40 JOB TYPE: VIR - DOWAIN - BLOCK JOB - TYPE - COMMIT

- ASYNC EVENT RAISED WHEN FINISHES

WHEN GOOD IS ACTIVE

- IMMEMMARIAN FLAGS: VIR-DOMAIN-BLOCK_COMMIT-ACTIVE

- JOBTIPE: VIR-DOMAIN-BLOCK-JOB-TYPE-ACTIVE-COMMIT

2 PHASES :

1) CONTENTS BEING COMMITTED TO GBASE

Z) CUR == END

JOB REMAINS ALIVE

ALL CHANGES SYNCED BIN GBASE & PGTOP

EVENT: VIR-DOMAIN-BLOCK-JOB-READY

CANCEL

PIVOT

@ top: INVALLD

GBASE! SYNCED GBASE! ACTIVE

MAGN - VIR DOMAIN BLOCK COMMIT DELETE LO REMOVE INAVALID FILES. - VIR - DOMAIN - BROCK - COMMIT_RECATIVE LO RELATIVE PATH FOR NEW BACKING pices. IF OBASE ==NULL LO 6 BASE = BOHOM OF BACKING CHAIN IF OHAGS = = SHALLOW LO GBASE = IMMEDIATE BACK FILE IF OTOP ==NULL 670P = ACTIVE MAGE