Hypervisor Project F2F meeting 20190924-25

Date: September 24-25, 2019
Location: Open Synergy, **Rotherstr 20, 10245** Berlin, Germany. S+U station "Warschauer Straße"

Participants:

- Kai Lampka ✅
- Gunnar Andersson ✅
- Matti Möll ✅
- Dmitry Morozov ✅
- Adam Lackorzynski ✅
- Artem - TBD ⚠️
- Bernhard / colleagues ❓

Logistics

- Adam is driving (or train) Tuesday morning, will try to make the time approximately

Hotel proposals (feel free to add your booking or proposal for syncing up)

- **ibis Styles Berlin City Ost** - Gunnar Andersson

Backlog topics

- Reschedule weekly phone conference meeting time

Resources

- Virtual Platform Introduction and Table, Draft spec text

Day 1 - 24 September	All durations are TBC			
Agenda item	Start time	Duration	End time	Owner(s)	Comment
Welcome & Logistics **DONE**	9:00	15mn	9:15	Matti	
Agenda review **DONE**	9:15	15mn	9:30	Gunnar	
Automotive Virtual Platform Specification					
1. Introduction DONE	9::30	10mn	9:40	Gunnar	
2. Architecture	9:40	30mn	10:10	Gunnar	
3. General requirements Partially done		TBD			
2.5 Booting Guests DONE	10:10	30mn	10:40	Matti with support from ARM? EBBR.	
3. Common Virtual Device categories					
3.1 Storage (Block Device) DONE	10:40	30mn	11:10	TBD Kai, or OpenSynergy	
3.1.x Meeting automotive persistence requirements DONE	11:10	30mn	11:40	TBD	
3.2 Network Device DONE		(more...)		OpenSynergy?	
Standard networks DONE	11:40	30mn	12:10	...	
Automotive networks TODO!	12:10	30mn	12:40	TBD	

Agenda item	Start time	Duration	End time	Owner(s)	Comment
Time-sensitive Networking standards TODO!	12:40	20mn	13:00	Matti	
Lunch **DONE**	13:00	1:00	14:00	Le Petit Royal	
3.3 GPU Device					
3.3.1 GPU Device in 2D Mode **DONE**	14:00	1h (less?) 20 min	15:00	Dmitry	
3.3.2 GPU Device in 3D Mode **DONE**	15:00	1h (less?) 20 min	16:00	Dmitry	
3.4 IOMMU Device TODO	16:00	45mn	16:45	Dmitry	
3.5 USB Device exchange for cryptography **DONE**	16:45	45mn	17:30	TBD	
End Day 1	17:30				
Dinner - @Ssam in Kreuzberg	19:00				

Day 2 - 25 September

Agenda item	Start time	Duration	End time	Owner(s)	Comment
Agenda review	9:00	10mn	9:10	Gunnar	

4. Special Virtual Device categories

change to afternoon instead

Agenda item	Start time	Duration	End time	Owner(s)	Comment
4.x Automotive Sensors **SCMI, can we reach consensus?**	9:10	45mn	9:55	ARM?	
4.x Audio DONE	9:55	45mn	10:40	Anton from OpenSynergy supporting (**confirmed**)	
4.x Media codec DONE - TODO clarify spec text	10:40	45mn	11:25	Dmitry	
4.x Cryptography DONE **Replay Protected Memory Blocks RPMB?** **+ Intel proposal?** Shift to Tuesday **DONE**	11:25	20mn (longer)	11:45	Matti finds a colleague or Artem ARM supporting.	
4.x.x Random Number Generation DONE					
5. Supplemental Virtual Device categories **DONE**					
5.x Text Console DONE + add on discussion of logging in general (standards) and also need for earlier mechanism than text console (early boot) **6.x Logging** **MORE TODO**	11:45	30mn (less?)	12:15	Gunnar	
5.1 Host-to-vm filesystem sharing DONE + Note some new ideas virtio-fs added, etc.	12:15	30mn (less?)	12:45	Gunnar	
Lunch	12:45	1h	13:45		

| Next Generation Multi-OS System Design Whitepaper

Shift to morning instead DONE					
section 1: introduction 09.30 ? **DONE**	13:45	15mn	14:00	Kai	
section 2: What does the HW need to fulfill to support unmodified execution of complete SW stacks,

what are the problems ? what is in the pipe ? | 14:00 | 30mn | 14:30 | Bernhard | |
section 3: isolation & partitioning : high levels definition ("academic view", which will have to cross-checked with reality later), isolation & timing	14:30	45:00	15:15	Bernhard, Adam, Kai	
section 4: Inter-core communication	15:15	30mn	15:45	Dmitry, Matti	
section 5: summary	15:45	15mn	16:00	Kai, Gunnar	
Backlog & Sprint Review	TBD	45mn		Gunnar	to be scheduled
Meeting Wrapup	16:30	30mn	16:30		
End Day 2	16:30				