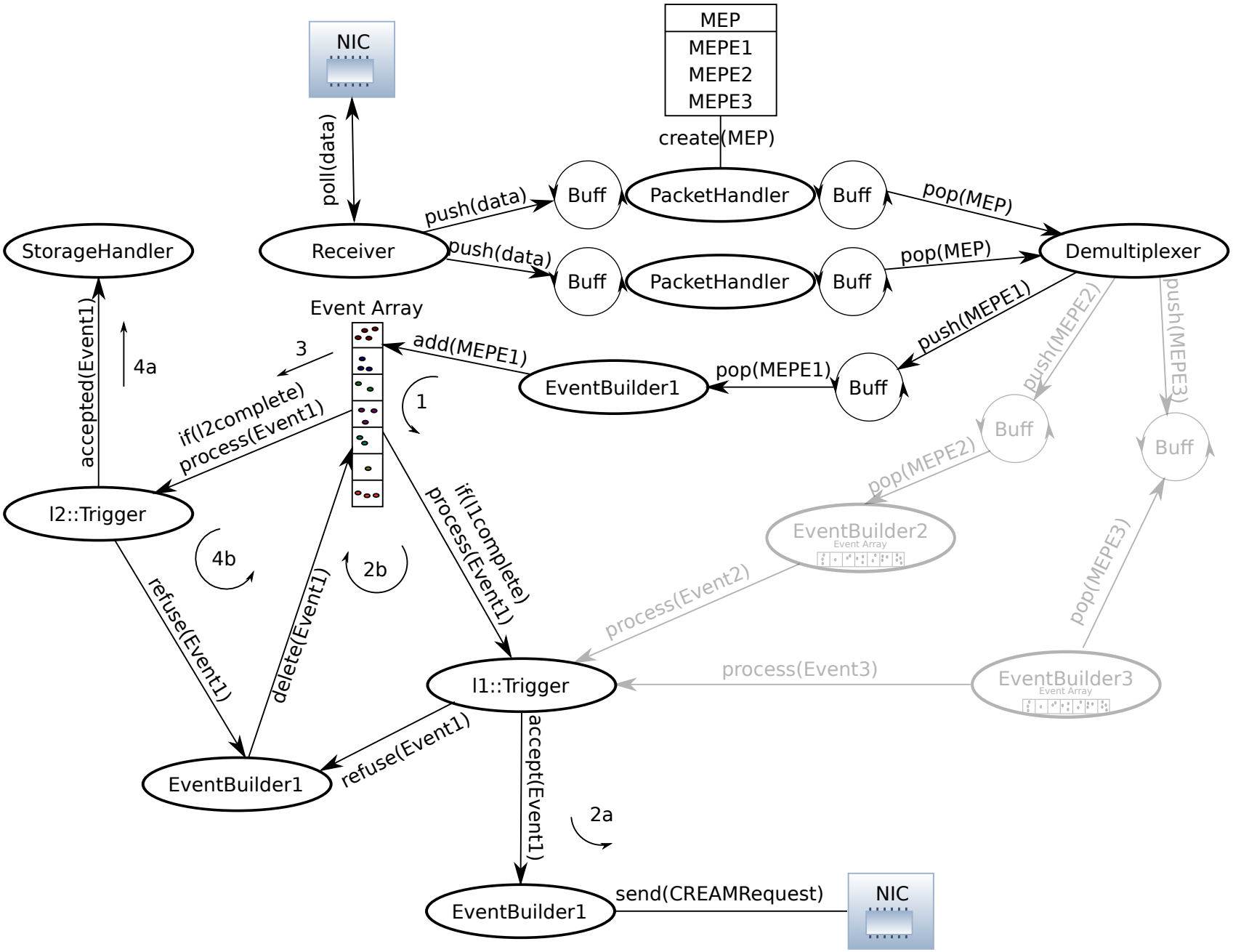
Farm - Data flow overview



Summary

Done so far

- Receiving L0-Data as defined in note NA62-11-02
- Integrity checks (Packet sizes, event numbers)
- L1-Eventbuilding
- Basic interface for L1 trigger software (any proposal?)

Missing

- IP CRC check (can we let the NIC do that?)
- CREAM data request
- Interface for L2 trigger software
- Interface to storage/tapes
- Monitoring frontend (any ideas?)

Load (very first rough estimation)

Full Speed L1 simulation:

- about 900kHz MEP rate
- 3 Events per MEP, 450B each
- 10 subdetektors
- $\Rightarrow$ about 270kHz Event rate

Process	Threads	CPU Load
Receiver	1	100%
PacketHandler	2	$\approx$ 180%
EventBuilder	22	$\approx$300%
L1 SUM	22	$\approx$1200%

About 18 cores remaining for L1 and L2 Trigger processing