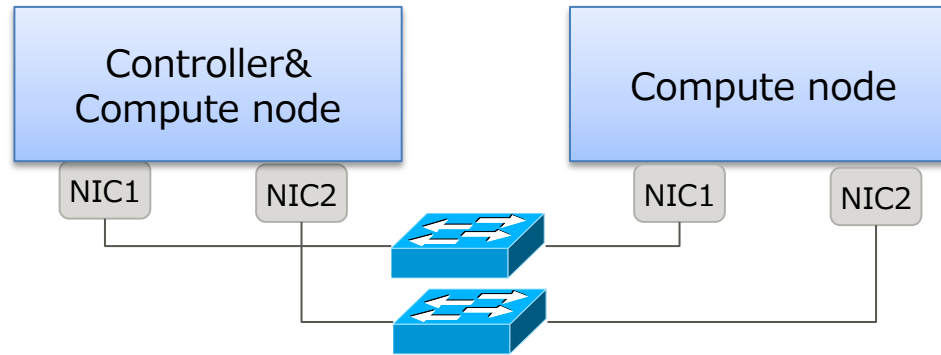


Performance Evaluation

Kazuhiro Suzuki and Soichi Shigeta
(Fujitsu Laboratories)

2016/02/03



■ Spec

	Physical server	VM
CPU	Xeon X2640 v2 2.0GHz (8 cores/16 threads)	2 vcpus
Memory	32GB	4GB
HDD	1TB	40GB
NIC	Two 1GbE NICs x2	1GbE NIC
OS	Ubuntu 14.04	CentOS 7.1

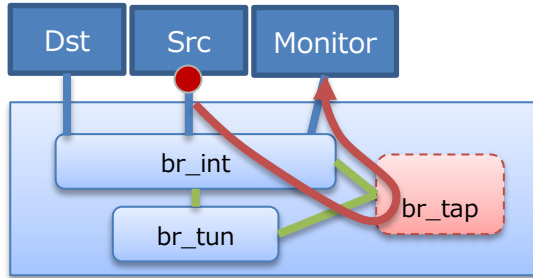
■ Benchmark

■ iperf-2.0.8

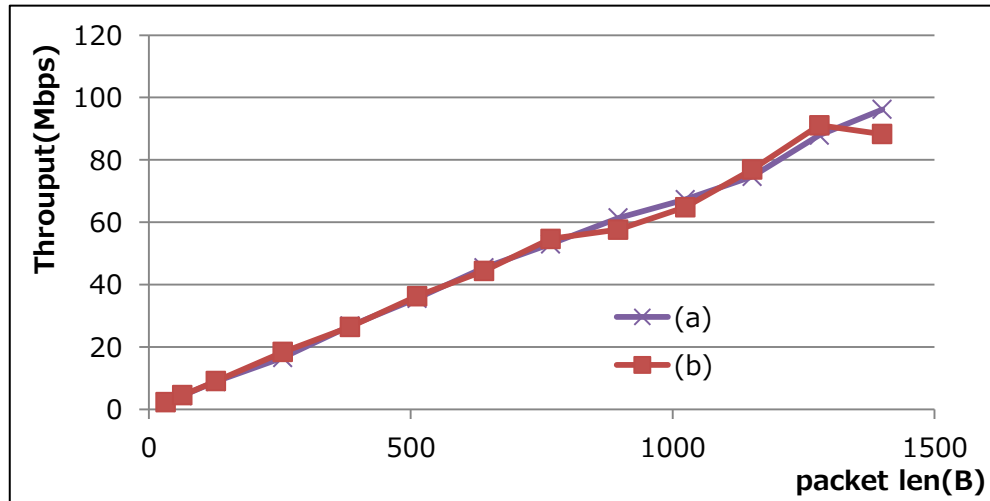
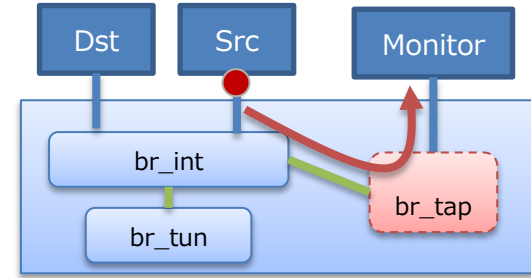
- Parameters

```
iperf -u -c <dst> -l <size> -b 1G -t 10 -P 2
```

(a) Original design

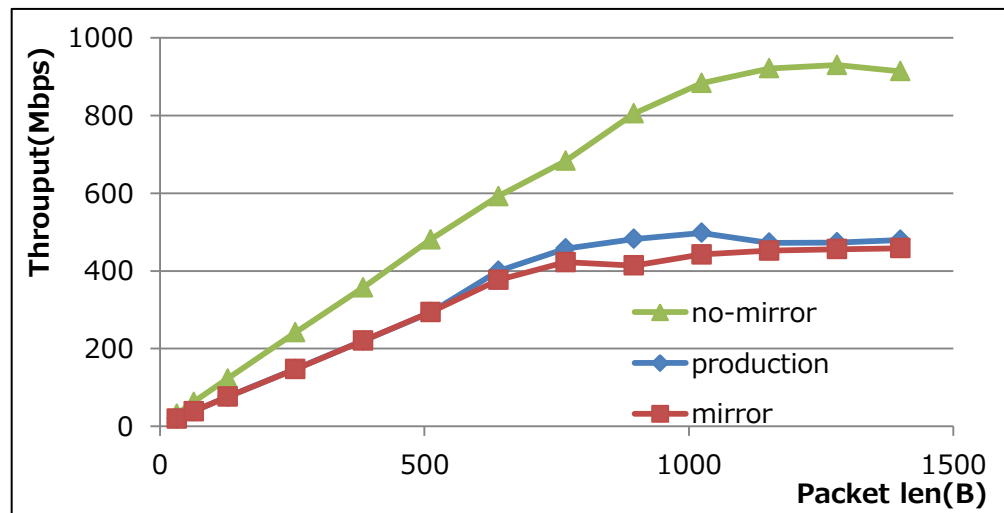
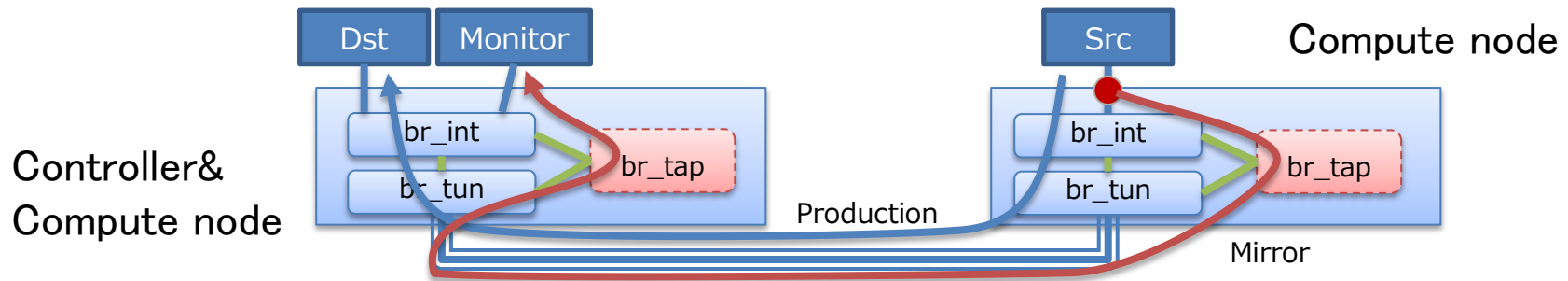


(b) Our proposal



- As Yamamoto suggested on IRC meeting, there is no significant difference between (a) and (b).

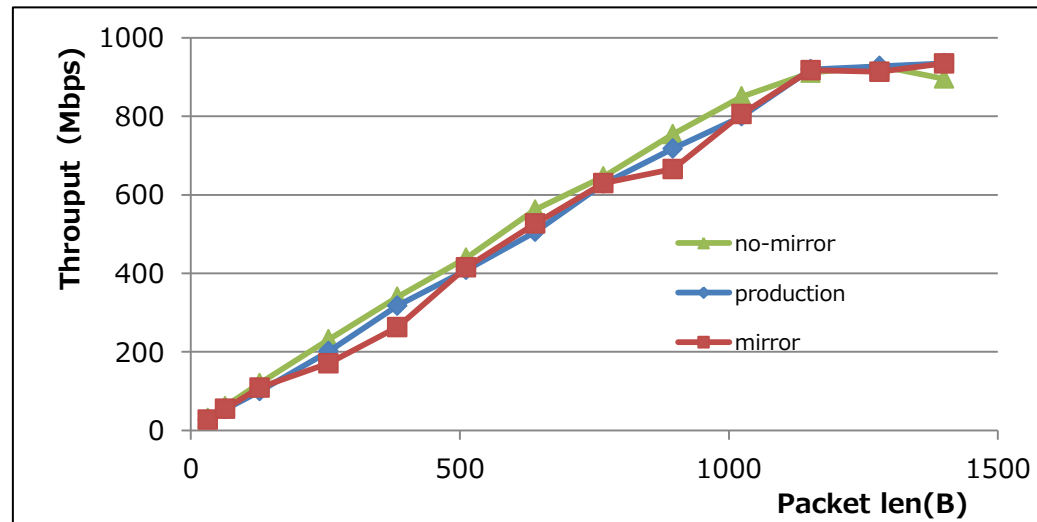
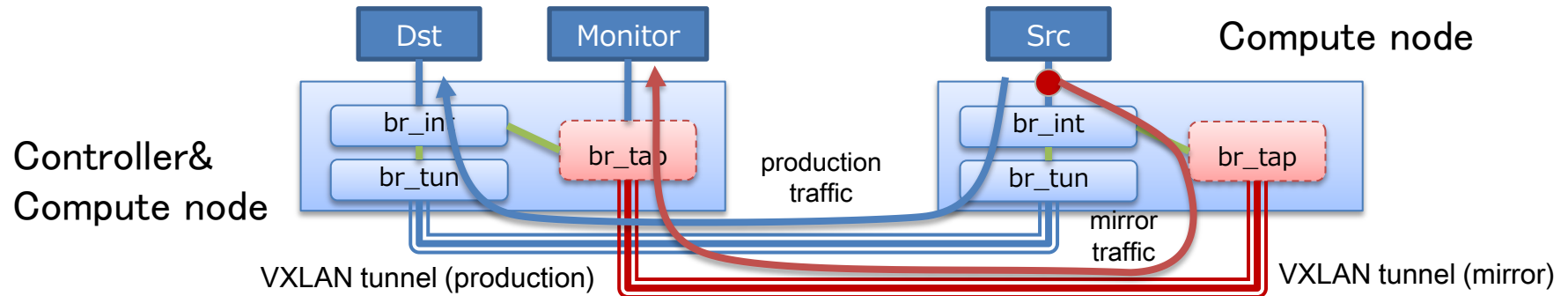
Evaluation (In case of Original design)




- Production traffics were peaked out at 500Mbps.
- Bandwidth of production traffic can be squeezed by mirror traffic.
- Reservation of bandwidth and/or QoS control will be required.

Evaluation (In case of Our proposal)

- Dedicated VXLAN tunnel for mirrored traffics.
- Map production and mirror traffics to different NICs each other.



- Production traffic can be mirrored up to (nearly) 1Gbps.



FUJITSU

shaping tomorrow with you