



# LMX

## HFT Infrastructure Management Platform

### HOW CAN WE ACHIEVE LOW LATENCY WITH A SOFTWARE DEFINED INFRASTRUCTURE?

LMX can maintain the low latency of underlying systems across virtual machines and containers. See Fig.1.

### WHAT ABOUT SECURITY?

With LMX, you have full access control over your environments which can be siloed on a user and project level.

### WILL COSTS SPIRAL WHEN I NEED TO SCALE?

Dynamically scale your resource when you need to with LMX and burst to public cloud for ad-hoc workloads.

### CAN I KEEP PHYSICAL ACCESS TO MY SERVERS?

LMX offers all of the features and functionality of an agile, software-defined infrastructure but in the safety and security of your own facility, chosen datacentre or co-lo provider, so you get the best of both worlds.

**IN A TRADITIONALLY HARDWARE-DRIVEN FIELD LIKE FINANCIAL SERVICES, ANY MENTION OF A SOFTWARE DEFINED INFRASTRUCTURE WILL INVARIABLY LEAD TO CONCERNS OVER PERFORMANCE AND LATENCY. WITH LMX WE CAN ALLEVIATE ANY LATENCY, SECURITY AND BUDGETARY CONCERNS FOR FSI SYSTEM ADMINS. HERE'S HOW:**

#### INFRASTRUCTURE CONTROL

With LMX you can manage your entire Financial Services infrastructure from a secure, on-premise, container-driven orchestration platform. With the added option of bolting on bare metal overclocked servers, add high performance back end storage and containerise your mission critical applications. Save on costs, simplify your infrastructure management and enable faster application development and deployment.

#### LOW LATENCY

One of the many benefits of LMX for FSI is the ability to virtualise part, or all of your infrastructure. We've debunked the myth that mance penalties apply as as you virtualise (visit our HFT blog where we managed to reduce latency times from 12 microseconds, to 2 microseconds –

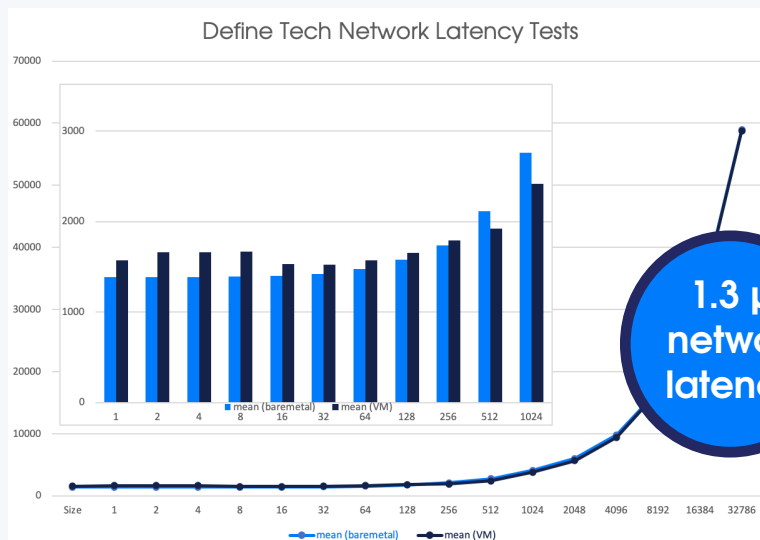


Fig 1. LMX Network Latency vs Bare Metal

and bested this again at 1.3 microseconds using overclocked hardware!). See Fig1.

**PHYSICAL ACCESS CONTROL**

LMX offers all of the features and functionality of an agile, software-defined infrastructure but in the safety and security of your own facility, chosen datacentre or co-Lo provider, so you get the best of both worlds (a software-defined infrastructure with full physical access control).

**DYNAMIC SCALING**

Manage your entire infrastructure from a single pane of glass, dynamically scale your resources (bare metal or virtualised) on-demand and even burst to public cloud providers if demand dictates.

**GLOBAL REACH**

With LMX, we can enable financial institutions to virtualise resources (eg. GPUs) which can be shared across a global user base, improving efficiency and utilisation and lowering TCO. Run secure dynamic Dev Ops environments on your own LMX platform, that can spin up multiple different stacks, for use in any location that can scale on demand and elastically provision the resources as and when they are required.

**GLOBAL DC DISTRIBUTION**

The LMX platform is on-net with over 650 globally

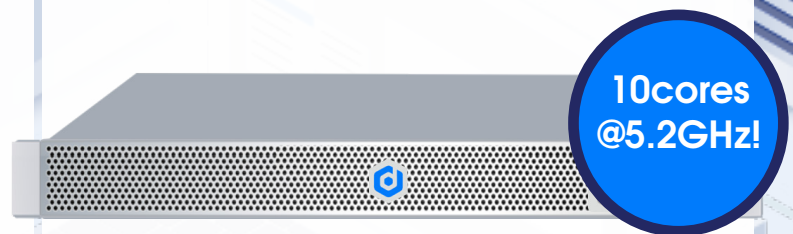
connected DCs, so that no matter how geographically diverse your team is, they can enjoy the benefits of a software-defined infrastructure.

**Low-Latency HFT Solution Providers**

We've partnered with HFT industry leading suppliers



ICC USA to deliver frequency optimised, low latency solutions that perform consistently at record speeds and more importantly, reliably. LMX supports HFT workloads with these overclocked servers through bare metal provisioning with no detriment to performance.



**Switch between bare metal provisioning and virtualised management orchestration for high frequency, low latency trading platforms.**

For more information and pricing, visit [www.define-technology.com/financial-services](http://www.define-technology.com/financial-services)

Legacy Hardware	LMX Platform	Public Cloud
Ultra Low Latency ✓	Ultra Low Latency ✓	Ultra Low Latency ✗
Physical Access Control ✓	Physical Access Control ✓	Physical Access Control ✗
Dynamic Scaling ✗	Dynamic Scaling ✓	Dynamic Scaling ✓
Global Reach ✗	Global Reach ✓	Global Reach ✓
Global DC Distribution ✗	Global DC Distribution ✓	Global DC Distribution ✓
Full Infrastructure Control ✓	Full Infrastructure Control ✓	Full Infrastructure Control ✗
Overclocked Servers ✓	Overclocked Servers ✓	Overclocked Servers ✗
Bare Metal Provisioning ✓	Bare Metal Provisioning ✓	Bare Metal Provisioning ✗

For pricing or to discuss your requirements: