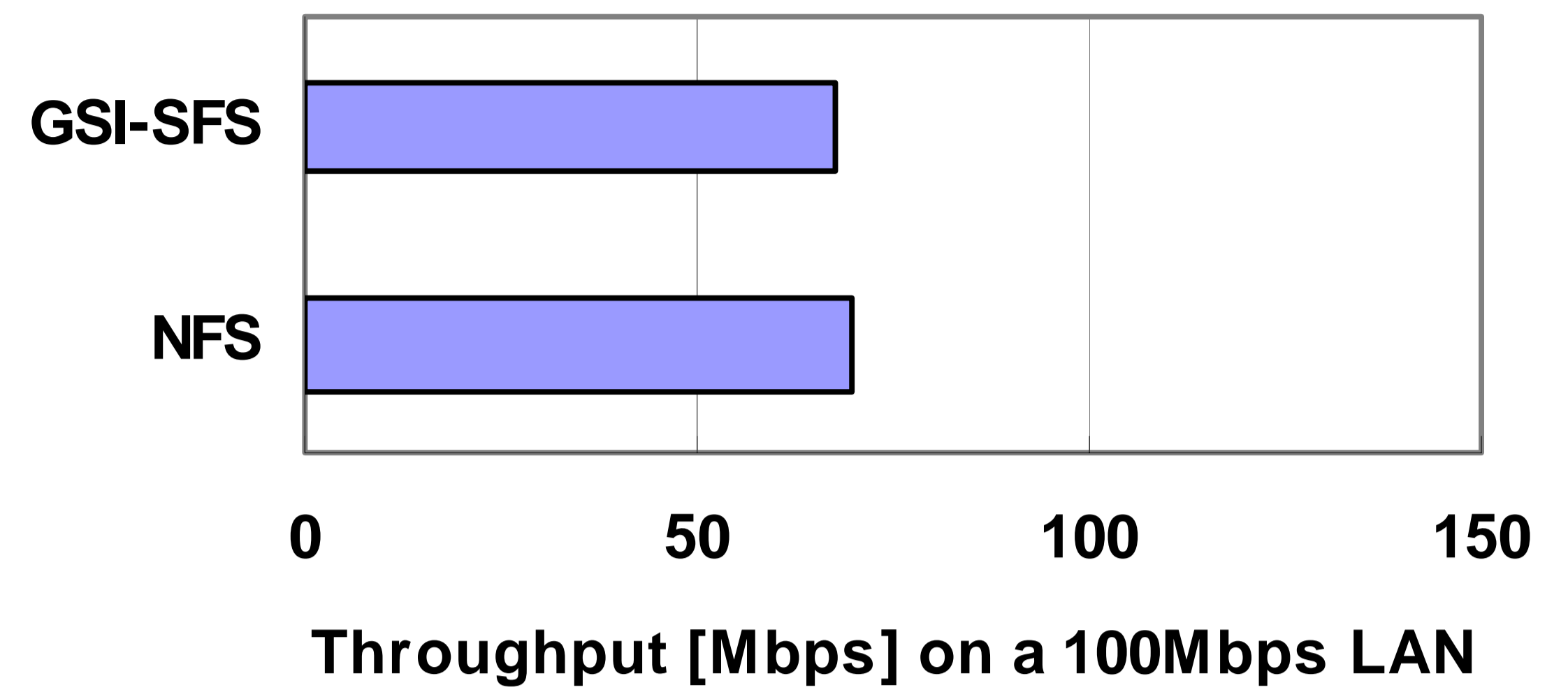
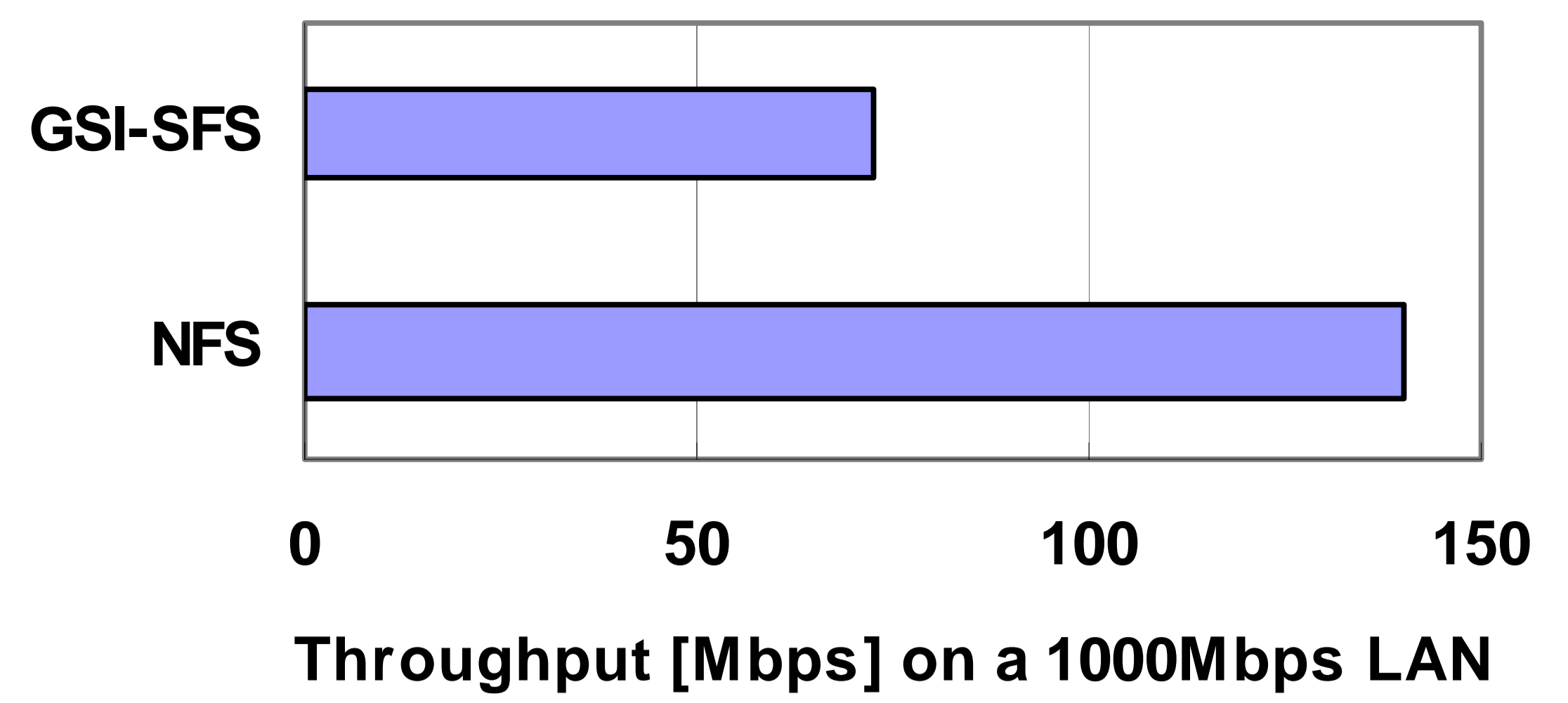


Why user-oriented?

GSI-SFS is developed to improve user convenience.

Each user can create an exclusive virtual directory structure without an administrative privilege of the client host.

GSI-SFS performs mutual authentication between a user and a host, not a host and a host like NFS.



How secure?

GSI-SFS utilizes widely used algorithms for encryption and authentication. The Grid Security Infrastructure (GSI) authenticates mutually by RSA key pairs. SFS also authenticates mutually by RSA key pairs, and encrypts the data in transit on the network by ARC4. These have enough strength for most of users.

It isn't slow?

GSI-SFS encrypts and authenticates the data for security. That incurs overhead and decreases throughput. However, as the charts show, that is not a serious problem on the relatively slow network such as 100BASE-TX. GSI-SFS is designed to be used over the untrusted and slow network, the Internet, so we consider security is more important than throughput.

How can I try?

GSI-SFS will be distributed soon at our web-site (<http://www.biogrid.jp/>) with an installation note.

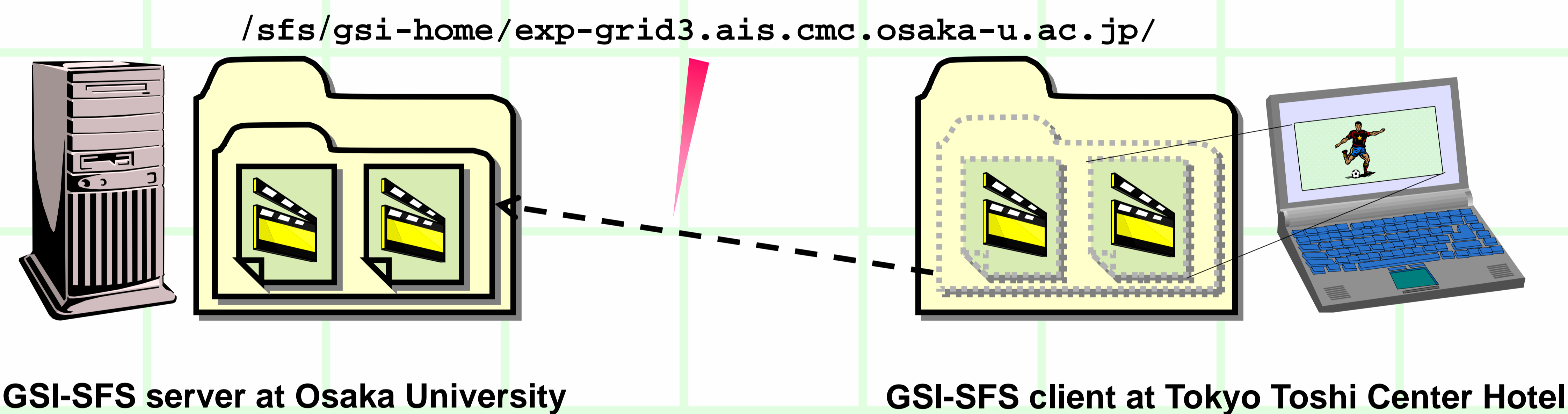
GSI-SFS requires two building block technologies:

Grid Security Infrastructure of Globus Toolkit (<http://www.globus.org/>)

Self-certifying File System (<http://www.fs.net/>)

Please visit our web-site for more information.

The demonstration



Movie Player

No special movie player program is needed to play a movie file on the grid. Users can access the file with a conventional UNIX path.

Structure of GSI-SFS

