

IPv6 and grid middleware: the EuChinaGrid experiences

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IPv6 is foreseen to become increasingly important in the next few years, especially in Far-East Asia, where it is already heavily used in production environments. Furthermore, some features (i.e. larger address space, end-to-end capabilities and extension header structure) are useful for Grid purposes. An ongoing EUChinaGRID activity is promoting the porting of European and Chinese middlewares to IPv6 and identifying interoperability problems. An interoperability study was carried out on both middlewares by independent groups in Europe and China.

The gLite code survey was performed in a minimal IPv6 GRID testbed; a specific tool, code-checker, was written to identify IP version dependencies in the source code. The analysis showed a number of issues, which have been addressed by providing EGEE developers with migration guidelines.

A similar testbed was started in China to migrate GOS, whose porting on the contrary does not have special issues and it is in an advanced status.