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Outsourcing Applications using Virtualisation

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HIP-TEK has studied and developed tools for Server Based Computing used with Xen virtual machine managers for Virtual Desktop Infrastructures. The solution combines the best aspects of the both worlds aiming at a real Green Computing infrastructure.

The solution implements many aspects of Green Computing such as:

- Increasing Telecommuting and Homeshoring with the help of Secure remote access to Virtual Desktops.
- Promoting thinner client devices instead of full-blown PCs for less operational expenditures, carbon offset and eWaste.
- Guaranteeing optimized use of hardware resources through virtualization, optimized kernel and software configurations on both thin clients and servers.
- Creating economies by on-demand power down management outside working hours while hosting permanent active sessions on servers in a controlled way.

In addition, with open source software platform, the system can be tailor made to interconnect many existing systems without any known vendor lock-ins. Green Computing incorporates economical, environmental and ethical values, and has become appreciated more and more in the markets of Government, Education and Corporate. The means to reach these goals are numerous, but in our case it is applied both at desktops as well as within servers. While in terms of Grid users, complex middleware can be pre-packaged and managed centrally on behalf of the user by professional administrators. The inherent benefits include: Hardware and Software repurchase cycles can be cut in terms of cost and maximized in terms of lifecycle. Lighter hardware on desktops can be used with low carbon footprint and less eWaste in recycling. Application stacks can be standardized on user's desktop with centrally managed maintenance. Particular needs are solved with access to personalized virtual machines, which can be instantiated on demand thus lowering server loads.

Presenter: HAPPONEN, Kalle (HIP-TEK)

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