The diagram shows the normalized runtime with perfect PWCs for different applications and memory configurations. The x-axis represents various applications (mcf, milc, zeusmp, cactusADM, soplex, GemsFDTD, omnetpp, astar, xalancbmk, gups, graph500, spec cpu2006) and memory sizes (4GB, 8GB, 16GB, 2GB, 8GB, 32GB). The y-axis measures the normalized runtime.

The applications are divided into two categories: native and virtual. The red bars represent the native runtime, while the green bars represent the virtual runtime.

For each application and memory configuration, the diagram shows the percentage difference in normalized runtime compared to a baseline. The percentage differences range from -35% to 14% for different applications and memory sizes.

For example, the mcf application shows a normalized runtime difference of -14% for the native configuration and -10% for the virtual configuration. The gups application shows a normalized runtime difference of -19% for the native configuration and 0% for the virtual configuration.

The diagram effectively visualizes the performance impact of virtualization on different applications and memory sizes.