**Language for Kill Devil Core-Hour Charges**

The Research Computing division of Information Technology Services delivers a 772 node (9152 core) Dell Linux cluster, “Kill Devil,” with QDR Infiniband interconnect and a minimum of 4 GB memory per core; a smaller 2300-core HP Linux cluster with QDR Infiniband interconnect and at least 6GB of memory per core; and two 32-core hosts with one terabyte of memory each to accommodate codes that require extremely large amounts of RAM. The Kill Devil Cluster also includes 64 NVidia Tesla GPUs (M2070).

UNC-Chapel Hill recognizes that computational research varies with respect to its data and processing demands, and also with respect to the need to compute, modify theories/codes, re-compute, etc.. UNC-Chapel Hill is also committed to providing a base computational resource both to help build research programs, to extend the value of extramural contracts/grants/awards, and to help sustain programs. The university acknowledges, too, that some projects may take weeks to realize, some may take decades to realize. Scientific problems are not one-sized; therefore, computational demands are not one-sized.

Accordingly, the university supports UNC-Chapel Hill investigators with direct investment for computational cores: (i) by delivering a free annual allocation of 200,000 core-hours at no cost to each investigator; (ii) for annual consumption above the free allocation, by covering a portion of the cost of the investigator’s core-hours, passing on only $.005 per core-hour (a half-cent per core-hour). The value of UNC-Chapel Hill’s investment is intended to cover at least 70% of the total cost of owning and operating the computational cores resource.

The free allocation and charge for additional core-hours is reviewed on an annual basis. The additional core-hour charge is a standardized institutional use charge for high performance computing use: it has been developed by an official university committee and in accordance with approved recharge center policies.