SC13 Short lecture @ AICS

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Name	Mr. Itaru Kitayama (AICS HPC Usability Research Team)
Title of your Presentation	Porting of an MPI-powered Genome Sequenced Data Assembler to the K Computer and Feasibility Study on the Performance
Abstract	Genome sequencing, when it comes to data analysis, requires large amount of resource in both storage and computation even today and the demand is predicted to grow in the future. To see feasibility of using the K Computer to boost the analysis of genetic information, we have made porting genome sequence assembler code to the K Computer. In this short talk, we will discuss the performance results measured on the K Computer compared against those from x86-based PC-cluster. Also give an overview of the MPI library that is the central component of the K Computer system and brings supercomputing class performance