Joint Information
Systems Committee

New Technologies Initiative
Launch Programme

Cover Sheet for Bid

Name of Project	Development of a Public Domain High Performance Fortran Translation System.
Lead Site	The University of Southampton

Other Consortia and Partnership Members

JISC Funding Sought in Year 1

£25, 000

Total Programme Funding Sought

Outline Description

High Performance Fortran (HPF) is the new language standard for developing Scientific programs to run on distributed memory supercomputers. It consists of a set of extensions to Fortran 90. We propose to develop a portable HPF translation system which would be made freely available to HE establishments.

Building upon expertise from the University's Department of Electronics and Computer Science, where research on HPF and precursor systems has been pursued for several years, we can credibly produce a prototype system within the academic year 93/94. Follow-on funding would allow the prototype to be developed to near product standard, and subsequently improved and maintained.