The Compaq Fortran team is proud to support the following universities and faculties of educational institutions with our Education Donation Program:

**Universitaet Bayreuth, Germany**

Approximately 300 students per year are learning Fortran during classes in Fortran 90/95 for Scientists and Engineers, EDV fuer Geooekologen, and courses on numerical optimization, data fitting and modeling in dynamical systems. The emphasis is placed on developing the student's ability to program basic numerical routines and solve simple and advanced research problems. The high-end Visual Fortran compiler will allow the students to use an industrial standard development tool for programming software for numerical analysis and technical calculations.

**Warsaw University of Technology, Poland**

The Faculty of Power and Aeronautical Engineering at the Warsaw University of Technology is teaching Fortran since 1981. The Computer Science course is followed by approximately 300 students over 4 semesters and includes basic elements of Fortran 90, advanced Fortran 90, Numerical Algorithms in Fortran 90, and advanced Algorithm in Fortran 90.

**University of Alberta, Canada**

The Department of Civil & Environmental Engineering will use Visual Fortran primarily teaching the theory and practice of the Petroleum Engineering area. Approximately 50 students per semester will be exposed to the Fortran language in areas such as reservoir simulator modeling, modeling in petroleum engineering, and much more. “It is common knowledge that many computational tools that are being used commercially in the oil and gas industry have been developed and updated in Fortran. It is essential for students that they learn and practice Fortran if they want to be competitive in the future workforce of that industry. One key point of our strategy is to equip our computer labs with robust and user-friendly Fortran Software and our choice is Compaq Visual Fortran” - says Luciane Cunha, PhD, Associate Professor of Petroleum Engineering.

**Universitaet Hannover, Germany**

The Institut fuer Angewandte Mathematik provides 40-60 first year BSc-Students per semester with an thorough introduction to Fortran 90/95 with an emphasis on numerical applications in mathematics.

**Universidad de Zaragoza, Spain**

The Departamento de Matemática Aplicada will provide classes in Numerical Methods, Numerical Calculus, and Numerical Analysis to approximately 180 students per semester.

**University of Oulu, Finland**

The Department of Mathematical Science teaches Numerical Methods to approximately 40 students per semester. Their main interest is on mathematical problems which do not have analytical solutions or are difficult to solve analytically. The goal of this course is to give the student the ability to create reasonably efficient computer algorithms to solve basic numerical problems.

**Kansas State University, U.S.A.**

Approximately 60 students per year will be introduced to the use of some of the standard scientific subroutines available and learn to use already-written code when possible during the second of two Chemical Engineering Computational Techniques courses. “Until now we were using Lahey’s Fortran Express Compiler, but are not satisfied with it in the teaching environment - especially the editing and debugging facilities (or lack thereof). Our limited experience with Visual Fortran has convinced us that the coordinated edit, compile, debug, and execute windows will make it considerably easier (and maybe more fun) for the students to learn Fortran,” says Richard G. Akins, Professor Chemical Engineering, Kansas State University.

**The University of Mississippi, U.S.A.**

"Fortran is one of the fastest executing programs and is the dominant programming language used in engineering and scientific computations and applications. From time to time, many have predicted that Fortran will rapidly fade in popularity and soon become extinct. These predictions have always failed. Fortran is the most enduring computer programming language in history," says Charles E. Smith, Professor and Chair at The University of Mississippi. The School of Engineering requires all engineering students, 370 per semester, to take Fortran programming courses for Engineering and Sciences and CAD in Electrical Engineering plus all five engineering departments require the use of Fortran for problem solving throughout the curriculum in many engineering courses.
The Ohio State University, U.S.A.

The course Engineering Graphics at The Ohio State University is the second of the two integrated courses that provide over 150 engineering students per course with a fundamental understanding of problem solving, engineering graphics and communication, basics of computer programming, and computer graphics. Says Jozsef Gazon, Professor at The Ohio State University: “Based on my 42-year experience in using Fortran language in real world and in teaching environment, I am sure about the invaluable advantage of using the Visual Fortran compiler to prepare the next generation of practicing engineers for their careers. It is a challenging and a rewarding experience to apply innovating technology like yours.”

Cork Institute of Technology, Ireland

The Department of Mechanical & Manufacturing Engineering teaches Numerical Methods (with Fortran) and their engineering applications to approximately 280 students per year in 5 classrooms. “The Visual Fortran Education Donation Program will greatly enhance our ability to maintain Fortran programming as a major component in our curriculum into the future,” says Matthew Cotterell, Senior Lecturer, Cork Institute Technology.

Texas A&M University, U.S.A.

The Agricultural Engineering Department requires students to develop simple Fortran programs to model the hydrologic processes. Special emphasis will be placed on using existing agricultural watershed models and the development of a simple Fortran watershed model.

Universitaet Wien, Austria

The Institut fuer Experimentalphysik at the University of Vienna intends to incorporate Visual Fortran in several of their courses such as Computer Based Physics and Computational Physics. Students are being taught the new Fortran 95 standards, mixed language programming (easier environment to include C-programs and LIBs in Fortran), use of Library Functions (LAPACK Library, Random Number Generation and Signal Processing), as well as to write simple OpenGL programs.

The Pennsylvania State University, U.S.A.

Students following the courses by the Department of Architectural Engineering will gain a broad understanding and working knowledge of lighting analysis models for a variety of lighting systems and lighting hardware. This class will require students to develop computer models of advanced lighting calculations in a space (direct and reflected contributions) using the Fortran programming language.

Universidad de Cantabria, Spain

The department of Ingenieros Industriales y de Telecomunicacion teaches courses of Industrial and Chemical Engineering titled “Fundamentals of Information Technology” where teaching the Fortran language to 120 new students per year is the primary goal.

Utah State University, U.S.A.

The Mechanical and Aerospace Engineering Department at Utah State University is teaching Fortran 90/95 programming and elementary numerical analysis with emphasis on practical applications and software development to approximately 70 students per year.

University of Trollhattan/Uddevalla, Sweden

The 40 students per semester are taught a thorough Fortran programming style with examples of modules such as electric circuitry, polynomials, extending the language to handle derivatives, extending Fortran to handle uncertainty using the Gauss approximation formula, examining and extending existing published modules and codes like interval arithmetic, differential equation solvers, etc.

University of Patras, Greece

The Mechanical Engineering Department & Aeronautics at the University of Patras teaches Fortran 90/95 to approximately 240 students per year in six classrooms. Having now the opportunity to switch from Microsoft PowerStation to a state-of-the-art Fortran 95 compiler, it will introduce their students to the latest high-performance technologies.

University of Nevada Las Vegas, U.S.A.

The Department of Mechanical Engineering offers six courses requiring students to write basic Fortran, or to use existing Fortran source codes, to solve various problems ranging from fluid flow to robotics and design/analyses. In addition, all mechanical engineering students are required to take Computer Science which is using Fortran as the programming language.

Tsinghua University, China

Approximately 96 students per course are following an updated program of Matrix Analysis of Structures. Taking advantage of the advanced features in Fortran 95, the students at Tsinghua University will focus on computer modeling, programming, analysis, and computation of large
Weber State University, U.S.A.

The Department of Physics at Weber State University is teaching Fortran to 15 students per semester largely by analogy to the Fortran 95 syntax and logic.

University College London, United Kingdom

The course of basic programming techniques and applications in mathematics at the University College London teaches Fortran to about 40 students per course covering the introduction to the Fortran programming language, algorithms, and the basics of numerical computation.

Humboldt State University, U.S.A.

The engineering program at Humboldt State University consists of two degree programs, a Bachelor of Science in Environmental Resources Engineering, and a Master of Science in Environmental Systems Management, and are being taught by four faculty members teaching one or more of these courses to 200 majors each semester. The course work in both programs heavily emphasizes the use of computer simulation and optimization methodologies to develop resource management strategies. The simulation and optimization packages used in all of the applications are written in Fortran. “With this donation, the best Fortran compiler on the market will be made available to our students in our computer labs and on their own machines,” says Brad Finney, Professor at the Environmental Resources Engineering Department at Humboldt State University.

The University of Newcastle, Australia

The Faculty of Engineering’s introductory course is taken by approximately 160 students per year in the disciplines of Civil, Environmental, and Mechanical Engineering, as well as Surveying. The students in these disciplines take a number of subsequent courses, mainly in numerical analysis. Says David Wood, Associate Professor: “About half of the software used by scientists and engineers is written in Fortran. Compilation of Fortran programs is an important aspect of our course especially as the student will spend a considerable amount of time in dealing the errors that often arise during it. Compaq’s donation of 160 licenses for four classrooms and 160 student licenses of their state-of-the-art Fortran 95 compiler for Windows systems is a terrific development for the future of Fortran. Thank you Compaq!”