Program Documentation Standards

Catalog of the most often requested AT&T documents.

Two of the most important elements of a computer programming effort are program debugging and documentation. This report provides an outline of fundamental debugging techniques to be used by Project ABACUS programmers. These are proven techniques that have been developed through experience. Documentation guidelines, based on US Army Regulations, have been established in this report to provide the programmers with standards for program documentation. The development of standardized procedures and thorough program documentation will enable succeeding programmers to assume responsibility for program maintenance expeditiously and with a minimum of confusion.

Background to data processing documentation. Documentation in a working environment. Components of development documentation. Analytical documentation. Systems documentation. Program documentation; Operations documentation; User and management aids. Special techniques. Recording complex logic. Software documentation aids. Documentation of software packages. Control of documentation. Development documentation and project control.The documentation library and documentation maintenance. Development of documentation standards.

An improved approach to programming has been developed in the last decade which produces reliable, efficient computer programs using fewer labor hours and far fewer maintenance hours than other coding approaches. This approach uses a disciplined style and is usually referred to as structured programming. This standard applies the concepts of structured programming to FORTRAN-77 and contains procedures which result in better, more reliable computer programs. It is based on many actual experiences, careful research, and documented studies. This standard classifies coding practices into five categories: mandatory, recommended, permitted, discouraged, and forbidden. The objectives of this standard in directing the use of disciplined programming practices are: 1) To apply an architectural and syntactical method to the FORTRAN-77 language that greatly reduces the probability of errors; 2) To produce code that is modified easily, rapidly, and reliably by applying the principles of modular, structured, and machine interchangeable FORTRAN-77. 3) To improve code clarity, simplicity, robustness, and reliability; 4) To prohibit convoluted logic; and 5) to produce well-documented code.

The Massachusetts General Hospital Utility Multi-Programming System (MUMPS) was developed at the Laboratory of Computer Science at Massachusetts General Hospital. MUMPS is a high-level language which also functions as an operating system and data base manager. A new documentation standard has been developed for MUMPS to accommodate the unique features and structure of the language. One of the most important characteristics of MUMPS is its flexibility. Complex information systems written in MUMPS can be modified much more quickly and easily than similar systems written in COBOL or FORTRAN. Therefore, the documentation of MUMPS systems must facilitate the incorporation of program modifications and updates. The purpose of this manual is to describe a method for documenting systems developed in MUMPS. However, it is believed that this approach is general and would be useful for dynamic system. regardless of the specific language used. This manual applies Yourdon and Constantine's transaction analysis design and structure techniques to document a MUMPS system.

The Software Management and Assurance Program (SMAP) Information System Life-Cycle and Documentation Standards Document describes the Version 4 standard information system life-cycle in terms of processes, products, and reviews. The description of the products includes detailed documentation standards. The standards in this document set can be applied to the life-cycle, i.e., to each phase in the system's development, and to the documentation of all NASA information systems. This provides consistency across the agency as well as visibility into the completeness of the information recorded. An information system is software-intensive, but consists of any combination of software, hardware, and operational procedures required to process, store, or transmit data. This document defines a standard life-cycle model and content for associated documentation. Callender, E. David and Steinbacher, Jody Unspecified Center DEVELOPMENT; DOCUMENTATION; INFORMATION SYSTEMS; QUALITY CONTROL; STANDARDS; SYSTEMS MANAGEMENT; SOFTWARE ENGINEERING; SYSTEMS ENGINEERING...

The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

The objective of Project 90A012 was to develop standards and specifications for NAVCOSSACT programming documentation that would be generally applicable to all NAVCOSSACT projects. The standards were to be sufficiently broad, yet detailed enough to be applicable to programming documentation requirements of any NAVCOSSACT software system. The specifications for the various kinds of programming documents were to be derived from, and were to reference, the documentation standards, thereby enabling a consistency of documentation throughout all NAVCOSSACT projects. A hierarchy of documentation was to be established that would provide a logical relationship among documents and would permit sufficient flexibility for appropriately covering all types of software systems. The conclusions in the Report indicate that the program employed was effective for this type of project and the objectives were achieved as embodied in the Appendix.

At Los Alamos National Laboratory a small staff of writers and word processors in the Computer Documentation Group is responsible for producing computer documentation for the over 8000 users of the Laboratory's computer network. The -mdoc macro package was developed as a software tool to support that effort. The -mdoc macro package is used with the NROFF/TROFF document preparation system on the UNIX operating system. The -mdoc macro package incorporates the standards for computer documentation at Los Alamos that were established by the writers. Use of the -mdoc macro package has freed the staff of programming format details, allowing writers to concentrate on content of documents and word processors to produce documents in a timely manner. It is an easy-to-use software tool that adapts to changing skills, needs, and technology. 5 refs.

Achieve better execution with the documentation standards behind an industry-leading firm Construction Documentation Standards and Best Practices for Landscape Architectural Design offers guidelines, methods, and techniques for creating more robust project documents.

Developed and authored by one of the world's leading landscape architectural firms, this material has been field tested by Design Workshop's ten offices and 150 designers to ensure completeness, practicality, and effectiveness. The book provides an overview of the entire design and construction process in the context of actual documentation, with best practice standards for design document content, format, and graphics. Readers learn how to apply these practices to serve the specific needs of different projects, gaining a comprehensive understanding of how complete documentation better serves the project as a whole. Good documentation leads to good execution, which leads to better performance from the perspectives of durability, safety, and user enjoyment. This book presents a set of standards that serve as a roadmap of the design process, helping designers provide the complete documentation that the most highly executed projects require. Discover how documentation ties into project performance Learn the best practices for documenting every stage of the process Study actual project documents serving various project needs Gain documentation insights from one of the world's top firms Design Workshop has been an industry leader since 1969, with projects ranging from resorts, to wildlife refuges, to county master plans. The value of their insight is proven by the continued high performance of their projects across the U.S. and beyond, and this book contains the standards, techniques, and actual documentation behind this success. Better outcomes require better execution, which starts with the documentation standards presented inConstruction Documentation Standards and Best Practices for Landscape Architectural Design.

This final report contains the full study findings for SOW Task 4.1.7. Included are proposed changes to DoD documentation standards necessary to realize the benefits of structured programming technology as related to documentation. The recommended changes to USAF MIL-STD-483 and DoD 4120.17M constitute the initial step in improving software documentation.

Excerpt from Icam Software Documentation Standards: Final Report, February 1980 In October of 1977 the National Bureau of Standards agreed with the Air Force Wright Aeronautical Laboratories to develop documentation standards for the Integrated computer-aided Manufacturing (icam) Program. Under mipe py1457-77-02054 nbs's Institute for Computer Sciences and Technology undertook and completed this project. The docu mentation standards included in this final report - nbsir 79-1940 (air Force) (r) - have given nbs the opportunity to adapt and substantially extend Federal Information Process ing Standards Publications 30, 38, and 6a; moreover, they provide the icam Program with the means of ensuring high quality software products. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.