

Intrinsic Functions

An intrinsic function is a function that a program can use without needing to declare or code it explicitly in the program. It returns a value that is computed at the time of reference during the execution of the object program.

The following intrinsic functions are available both in Enterprise COBOL and in Tandem COBOL. The functions themselves are explained in detail in their respective manuals listed under the references.

- | | |
|-------------------|----------------------|
| • ACOS | • ABSOLUTE |
| • ARRSIZE | • BIN |
| • ASIN | • BCD |
| • ATAN | • BUMPAL |
| • CHAR | • BUMPALC |
| • COS | • CDB |
| • CURRENT-DATE | • DAY-MAX |
| • DATE-OF-INTEGER | • DAY-MIN |
| • DAY-OF-INTEGER | • DECIMAL-VALUE |
| • FACTORIAL | • RANDOM |
| • INTEGER | • RANGE |
| • INTEGER-OF-DATE | • REM |
| • INTEGER-OF-DB | • REVERSE |
| • INTEGER-PART | • SIN |
| • LENGTH | • SORT |
| • WHEN-COMPILED | • STANDARD-DEVIATION |
| • COS | • TAN |
| • CDB | • TAN |
| • LOWER-CASE | • UPPER-CASE |
| • MAX | • VARIANCE |
| • MEAN | |
| • MEDIAN | |

The following intrinsic functions are present only in Enterprise COBOL:

- DATE-TO-YYYYMMDD
- DAYVAL
- DAY-TO-YYYYMMDD
- DISPLAY-OF
- NATIONAL-OF
- UPDATE
- YEAR-TO-YYYY
- YEAR-MIN-OF

Availability, Statistics, and Performance

HP NonStop Tandem's availability statistics and performance (AAP) product monitors the HP Tandem operating system and application resources. The related calls can be coded in programs to gain insights into critical applications running on HP NonStop Tandem systems. This investigation enables users to plan for the infrastructure growth as required.

Test software can be used to measure current response times of programs running on IBM i/OS for speed and test transactions, the use of resources, amount of MQ messages and DB2 calls.

Based on further investigations, a product similar to AAP - *Application Performance Analyzer* - exists on the IBM platform.

Transaction Management Facility

The HP NonStop Tandem transaction management facility (TMF) product furnishes transaction protection, database consistency and data-

HP-Only Imperative Statements

Statements	HP Tandem COBOL	IBM COBOL/Enterprise COBOL
CHECKPOINT STARTBACKUP SPINCOFF (the phrase of OPEN PAGE ALLOCATE	The statements are used to detect fault toward programs (such as Resource Process pairs).	Such fault-tolerant programming is not available.
LOCKFILE UNLOCKFILE UNLOCKRCORCO	The statements are used to LOCK and UNLOCK the accessibility of a file during the program execution.	The option to LOCK/UNLOCK a file exists by use of JCL statements. But the locking is applicable throughout the execution of the program and not as an as-needed basis, which is available in HP Tandem COBOL.
USING and USING phrase of ENTER statement	The statement is used to perform mixed language programming wherein certain co-linguages other than Cobol are called within Cobol programs.	The statement is not available. The CALL statement is used to perform the mixed language programming.

Figure 8

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G Orfield



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Securing HP NonStop Servers in an Open Systems World XYPRO Technology XYPRO Technology Corp,2011-04-08
Recent corporate events have exposed the frequency and consequences of poor system security implementations and inadequate protection of private information In a world of increasingly complex computing environments myriad compliance regulations and the soaring costs of security breaches it is economically essential for companies to become proactive in implementing effective system and data security measures This volume is a comprehensive reference for understanding security risks mitigations and best practices as they apply to the various components of these business critical computing environments HP NonStop Servers are used by Financial Medical Manufacturing enterprises where there can be no down time Securing HP NonStop Servers in an Open Systems World OSS TCP IP and SQL takes a wide angle view of NonStop Server use This book addresses protection of the Open Systems Services environment network interfaces including TCP IP and standard SQL databases It lays out a roadmap of changes since our first book HP has made to Safeguard elaborating on the advantages and disadvantages of implementing each new version Even the security aspects of managing Operating System upgrades are given attention Auditors security policy makers information security administrators and system managers will find the practical information they need for putting security principles into practice to meet industry standards as well as compliance regulations Addresses security issues in Open Systems Services Critical security topics for network interfaces TCP IP SQL etc Updates to safeguard thru since publication of XYPRO s last book COBOL Programming Manual Tandem Computers (Firm),1983 *HP NonStop Server Security* Terri Hill,XYPRO Technology Corp,Ellen Alvarado,2003-09-22 Since the last publication of the Ernst and Young book on Tandem security in the early 90 s there has been no such book on the subject We ve taken on the task of supplying a new Handbook whose content provides current generic information about securing HP NonStop servers Emphasis is placed on explaining security risks and best practices relevant to NonStop environments and how to deploy native security tools Guardian and Safeguard All third party vendors who supply security solutions relevant to NonStop servers are listed along with contact information for each vendor The Handbook is a source for critical information to NonStop professionals and NonStop security administrators in particular However it is written in such a way as to also be extremely useful to readers new to the NonStop platform and to information security This handbook familiarizes auditors and those responsible for security configuration and monitoring with the aspects of the HP NonStop server operating system that make the NonStop Server unique the security risks these aspects create and the best ways to mitigate these risks Addresses the lack of security standards for the NonStop server Provides information robust enough to train more security knowledgeable staff The ideal accompaniment to any new HP NonStop system **The Software Encyclopedia** ,1986 Cobol Manual (subject of the ICL Cobol Reference Manual). Swinburne College of Technology. Publications Department,1969 HP 3000 Computer Systems Hewlett-Packard Company,1978

Computerworld ,1982-09-06 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

Scientific and Technical Aerospace Reports ,1984 COBOL Manual (subset of the ICL COBOL Reference Manual). Swinburne College of Technology. Publications Dept,1969 *The Programmer's ANSI COBOL Reference Manual* Donald A. Sordillo,1989 **COBOL II/3000** Hewlett-Packard Company,1980 *COBOL Manual* Convergent Technologies, Inc,1982

The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 **COBOL User's Guide** Tandem Computers (Firm),1985 This manual is a task oriented companion volume to the COBOL Reference Manual It includes information to help an experienced COBOL programmer use Tandem COBOL Computerworld ,1990-10-08 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **COBOL85 Reference Manual** Tandem Computers (Firm),1985 This manual describes the Tandem Computers implementation of the COBOL language It includes information on the COBOL compilers and on program execution **COBOL85 Reference Manual** Tandem Computers (Firm),1985 This manual describes the Tandem Computers implementation of the COBOL language It includes information on the COBOL compilers and on program execution *COBOL/3000 Reference Manual* Hewlett-Packard Company,1979 COBOL Hewlett-Packard Company,1979 COBOL Reference Manual (AOS/VS). Data General Corporation,1980

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Table of Contents Hp Nonstop Cobol Manual

1. Understanding the eBook Hp Nonstop Cobol Manual
 - The Rise of Digital Reading Hp Nonstop Cobol Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Hp Nonstop Cobol Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hp Nonstop Cobol Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hp Nonstop Cobol Manual
 - Personalized Recommendations
 - Hp Nonstop Cobol Manual User Reviews and Ratings
 - Hp Nonstop Cobol Manual and Bestseller Lists
5. Accessing Hp Nonstop Cobol Manual Free and Paid eBooks

- Hp Nonstop Cobol Manual Public Domain eBooks
- Hp Nonstop Cobol Manual eBook Subscription Services
- Hp Nonstop Cobol Manual Budget-Friendly Options
- 6. Navigating Hp Nonstop Cobol Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Hp Nonstop Cobol Manual Compatibility with Devices
 - Hp Nonstop Cobol Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hp Nonstop Cobol Manual
 - Highlighting and Note-Taking Hp Nonstop Cobol Manual
 - Interactive Elements Hp Nonstop Cobol Manual
- 8. Staying Engaged with Hp Nonstop Cobol Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hp Nonstop Cobol Manual
- 9. Balancing eBooks and Physical Books Hp Nonstop Cobol Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hp Nonstop Cobol Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hp Nonstop Cobol Manual
 - Setting Reading Goals Hp Nonstop Cobol Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hp Nonstop Cobol Manual
 - Fact-Checking eBook Content of Hp Nonstop Cobol Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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