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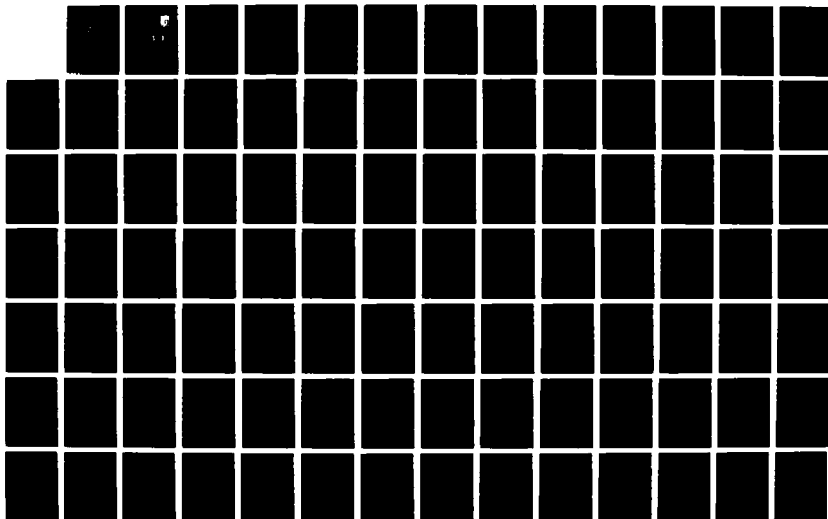
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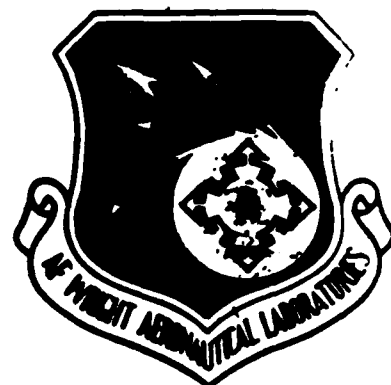
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AFWAL-TR-86-4006
Volume VI
Part 5

AD-A182 060



INTEGRATED INFORMATION
SUPPORT SYSTEM (IISS)
Volume VI - Network Transaction Manager Subsystem
Part 5 - NTM Monitor Product Specification

General Electric Company
Production Resources Consulting
One River Road
Schenectady, New York 12345

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Final Report for Period 22 September 1980 - 31 July 1985
November 1985

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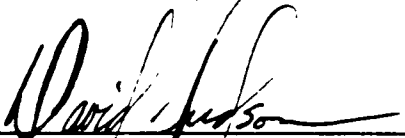
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This technical report has been reviewed and is approved for publication.



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1308	0905			
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This product specification provides structure charts and module descriptions of the Monitor Application Process. The Monitor AP is the component of the Network Transaction Manager that monitors and coordinates IISS activities. <i>Keywords: Supply for a new manufacturing process.</i>				
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PREFACE

This product specification covers the work performed under Air Force Contract F33615-80-C-5155 (ICAM Project 6201). This contract is sponsored by the Materials Laboratory, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Gerald C. Shumaker, ICAM Program Manager, Manufacturing Technology Division, through Project Manager, Mr. David Judson. The Prime Contractor was Production Resources Consulting of the General Electric Company, Schenectady, New York, under the direction of Mr. Alan Rubenstein. The General Electric Project Manager was Mr. Myron Hurlbut of Industrial Automation Systems Department, Albany, New York.

Certain work aimed at improving Test Bed Technology has been performed by other contracts with Project 6201 performing integrating functions. This work consisted of enhancements to Test Bed software and establishment and operation of Test Bed hardware and communications for developers and other users. Documentation relating to the Test Bed from all of these contractors and projects have been integrated under Project 6201 for publication and treatment as an integrated set of documents. The particular contributors to each document are noted on the Report Documentation Page (DD1473). A listing and description of the entire project documentation system and how they are related is contained in document FTR620100001, Project Overview.

The subcontractors and their contributing activities were as follows:

TASK 4.2

Subcontractors

Role

Boeing Military Aircraft
Company (BMAC)

Reviewer.

D. Appleton Company
(DACOM)

Responsible for IDEF support,
state-of-the-art literature
search.

General Dynamics/
Ft. Worth

Responsible for factory view
function and information
models.

<u>Subcontractors</u>	<u>Role</u>
Illinois Institute of Technology	Responsible for factory view function research (IITRI) and information models of small and medium-size business.
North American Rockwell	Reviewer.
Northrop Corporation	Responsible for factory view function and information models.
Pritsker and Associates	Responsible for IDEF2 support.
SofTech	Responsible for IDEFO support.

TASKS 4.3 - 4.9 (TEST BED)

<u>Subcontractors</u>	<u>Role</u>
Boeing Military Aircraft Company (BMAC)	Responsible for consultation on applications of the technology and on IBM computer technology.
Computer Technology Associates (CTA)	Assisted in the areas of communications systems, system design and integration methodology, and design of the Network Transaction Manager.
Control Data Corporation (CDC)	Responsible for the Common Data Model (CDM) implementation and part of the CDM design (shared with DACOM).
D. Appleton Company (DACOM)	Responsible for the overall CDM Subsystem design integration and test plan, as well as part of the design of the CDM (shared with CDC). DACOM also developed the Integration Methodology and did the schema mappings for the Application Subsystems.

Subcontractors

Role

Digital Equipment
Corporation (DEC)

Consulting and support of the
performance testing and on DEC
software and computer systems
operation.

McDonnell Douglas
Automation Company
(McAuto)

Responsible for the support and
enhancements to the Network
Transaction Manager Subsystem
during 1984/1985 period.

On-Line Software
International (OSI)

Responsible for programming the
Communications Subsystem on the
IBM and for consulting on the
IBM.

Rath and Strong Systems
Products (RSSP) (In 1985
became McCormack & Dodge)

Responsible for assistance in
the implementation and use of
the MRP II package (PIOS) that
they supplied.

SofTech, Inc.

Responsible for the design and
implementation of the Network
Transaction Manager (NTM) in
1981/1984 period.

Software Performance
Engineering (SPE)

Responsible for directing the
work on performance evaluation
and analysis.

Structural Dynamics
Research Corporation
(SDRC)

Responsible for the User
Interface and Virtual Terminal
Interface Subsystems.

Other prime contractors under other projects who have
contributed to Test Bed Technology, their contributing
activities and responsible projects are as follows:

Contractors

ICAM Project

Contributing Activities

Boeing Military
Aircraft Company
(BMAC)

1701, 2201,
2202

Enhancements for IBM
node use. Technology
Transfer to Integrated
Sheet Metal Center
(ISMC).

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1 November 1985

<u>Contractors</u>	<u>ICAM Project</u>	<u>Contributing Activities</u>
Control Data Corporation (CDC)	1502, 1701	IISS enhancements to Common Data Model Processor (CDMP).
D. Appleton Company (DACOM)	1502	IISS enhancements to Integration Methodology.
General Electric	1502	Operation of the Test Bed and communications equipment.
Hughes Aircraft Company (HAC)	1701	Test Bed enhancements.
Structural Dynamics Research Corporation (SDRC)	1502, 1701, 1703	IISS enhancements to User Interface/Virtual Terminal Interface (UI/VTI).
Systran	1502	Test Bed enhancements. Operation of Test Bed.

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SECTION 1

SCOPE

1.1 Identification

This specification establishes the 'as built' design of the Monitor Application Program component of the Network Transaction Manager Subsystem.

1.2 Functional Summary

The Network Transaction Manager (NTM) Subsystem provides the control and support services to application processes that are grouped together logically in clusters called Application Process Cluster (APCs). These application processes communicate with one another by sending messages via the NTM. The NTM delivers these messages to the destination application processes while also providing other services for the APs such as message pairing, AP initiation, and message queuing.

SECTION 2

DOCUMENTS

2.1 Reference Documents

The following pertinent reference materials are available at the ICAM Program Office.

1. Interim Reports

2. Life Cycle Documents

- (a) ITR620150002U Project Scope
- (b) PMP620150000 Master Plan and Schedule
- (c) SAD620150000 State-of-the-art Review
- (d) SRD620140000 System Requirements Document
- (e) SDS620140000 System Design Specifications
- (f) DS6201420000 Development Specification - Network Transaction Manager Subsystem

The following reference materials are available from Digital Equipment Corporation.

- (a) VAX/VMS I/O User's Guide (Volume 1), Order No. AA-M540B-TE
- (b) VAX/VMS I/O User's Guide (Volume 2), Order No. AA-M541B-TE
- (c) VAX COBOL Language Reference Manual, Order No. AA-H631C-TE
- (d) VAX-11 FORTRAN Language Reference Manual, Order No. AA-D034C-TE

Other reference materials are as follows.

- (a) International Organization for Standardization, Open Systems Interconnection, Information Processing

Systems - Basic Reference Model, TC 97/16 N 719

- (b) International Organization for Standardization, Open Systems Interconnection, Draft, Connection-Oriented Transport Service Definition TC 97/16 N 860
- (c) International Organization for Standardization, Open Systems Interconnection, Draft, Connection-Oriented Transport Protocol Specification Version 1.2, TC 97/16 N 861
- (d) International Organization for Standardization, Open Systems Interconnection, Draft, Connection-Oriented Session Protocol Definition TC 97/16 N 856
- (e) National Bureau of Standards, Specification of the Transport Protocol, Volume 2: Basic Class Protocol, Draft Report, September 1981, Report No. ICST/HLNP-81-12
- (f) National Bureau of Standards, Specification of the Transport Protocol, Volume 3: Extended Class Protocol, Draft Report, September 1981, Report No. ICST/HLNP-81-13
- (g) National Bureau of Standards, Specification of the Transport Protocol, Volume 4: Network Interfaces, Draft Report, September 1981, Report No. ICST/HLNP-81-14

2.2 Terms and Abbreviations

1. Interhost Communication Primitives (IHC's) - A set of routines used by the NTM to interface to the operating system or to other operating systems which have an NTM running. They are always system dependent.
2. Interprocess Communication Primitives (IPC's) - A set of routines used to communicate between two processes on the same computer. They are always system dependent.

SECTION 3

REQUIREMENTS

3.1 Structural Descriptions

The Monitor application process (Monitor AP) is the NTM component which provides a central control point for the IISS environment on an IISS host node. Monitor AP's responsibilities include coordinating IISS start-up and shutdown, monitoring IISS operating activity, and providing an interface to the IISS operator.

3.2 Functional Flow Description

When the IISS is initiated on a host, the Monitor AP is the first NTM component to start. It is under the control of the Monitor AP that all Application Process Clusters (APCs) and all IISS network communications are initiated. When the IISS operator, logged on to the command level of the host operating system, invokes the command file, the Monitor AP is loaded and executed. Monitor AP begins execution by initializing its local variables and creating and initializing the host global NTM tables. It then spawns its own APC and establishes communications with it via a message exchange protocol. With the Monitor APC active, the Monitor AP begins requesting the initiation of local APCs. The Monitor APC MPU interprets these commands and spawns the requested MPUs. Once all the local APCs have been started, network communications is initiated. The Monitor AP determines which remote hosts are available in the IISS environment and attempts to establish communications to each. Monitor AP accomplishes this by first requesting that the COMM APC MPU initiate the appropriate COMM AP, and by then forwarding a "Start Link" message to the COMM AP.

When start-up is complete, the Monitor AP updates the system tables and sends a "Host Active" message to all local MPUs indicating that normal IISS processing may now begin.

It should be pointed out that start-up on "remote" (i.e. non-VAX) nodes differs slightly from the above description (which occurs on the "central" (VAX) node). After initiating the Monitor APC, as above, the remote node attempts to establish a communication link to the central node before continuing with start-up. Monitor AP initiates the COMM APC and the appropriate comm link and then waits for a response from the central node

Monitor AP indicating that it is active. Once this link has been established, start-up continues as above.

With the IISS started and in a stable state, Monitor AP assumes the role of system monitor: handling system error messages, processing operator commands, and in general, maintaining the operability of the IISS environment. Monitor accepts error and status messages from system components to be displayed on the operator's console. The following operator commands are supported by the Monitor AP:

1. Shutdown IISS
2. Shutdown an APC
3. Start an APC
4. Shutdown a Comm Link
5. Start a Comm Link
6. Cancel an IISS shutdown
7. Display System Status
8. Display Active APs
9. Enable SIGERR messages
10. Disable SIGERR messages
11. Select Logging Features
12. Start New Log File

Upon receiving the Shutdown IISS command, Monitor begins coordinating the orderly shutdown of the IISS. Prior to actually beginning shutdown processing, the Monitor AP notifies IISS users that a system shutdown is pending. When shutdown begins, the non-component APCs are told to shutdown. Network communications is then terminated followed by the shutdown of the component APCs. When all other NTM components are shutdown, the Monitor AP requests the shutdown of its own MPU and then ends its own execution.

3.3 Interfaces

The Network Transaction Manager maintains communications with any other process through mailboxes. The mailboxes are managed by the Interprocess Communication Primitives (IPC's).

Communications with the remote computer is accomplished through the Communication sub-system process which will be running when there are other hosts to communicate with.

3.4 Program Interrupts

As mentioned previously, NTM is interrupt driven with

interrupts coming either from the IPC's on behalf of any other process which may be another MPU or any other AP. Waiting for these interrupts is performed by one of the IPC wait primitives. If a response must be received within a particular time interval, the IPC's associated with timing are used along with one of the wait's.

3.5 Timing And Sequence Description

The NTM does not depend on any particular timing sequences.

3.6 Special Control Features

The Network Transaction Manager Subsystem does not include any special control features as defined in the ICAM Documentation Standards manual.

3.7 Storage Allocation

3.7.1 Data Base Definition

The descriptions of the files, tables, symbols, and constants used in the NTM are contained in the Developmental Specification (DS 620142000) and in the Include Files referenced in Section 3.10.9 of this document.

3.7.1.1 File Description

3.7.1.2 Table Description

3.7.1.3 Item and Constant Description

3.7.2 CPC Relationship

3.8 Object Code Creation

The generic portion of NTM is written in COBOL. Release 2.0 has been successfully compiled on a VAX 11/780 under VMS, and earlier releases on IBM 3084 under MVS (Rel 1.8), and a Honeywell Level 6 under Mod 400 (Rel 1.2).

The minimum computer hardware and software required to create and run NTM in the IISS environment is documented in the Installation Guide for IISS on the VAX and in the Installation Guide for IISS on the IBM.

3.9 Adaptation Data

The command procedures to the create Monitor executable are specific to each computer and can be found under Software Configuration Management.

3.10 Detail Design Description

The upcoming program details were derived from all modules that were selected when the following Documentation Group(s) was chosen:

NTMMON

3.10.1 Main Program List

The following is a list of all "Main Programs" which are modules that are not called by any other module being documented here. These modules are either program entry points or, if they are hooked into another set of programs via subroutine calls, they are the points the external programs can call and therefore enter through. To differentiate between the two types of entry points, look at the individual Module Documentation (section 3.10.8) and look at Module Type for each of the Main Program modules listed. Note whether the routine is a Program, Subroutine, or Function. If it is a Program, it is truly a main program entry point. If not, then it is merely called by other programs not being documented here.

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NTM/MONITOR Main Program List

Module Name -----	Purpose -----
AUTINI	INITIALIZE THE AUTHORITY TABLE.
GRDINI	INITIALIZE THE GUARANTEED DELIVERY TABLE.
GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
MTRGEN	PURPOSE NOT KNOWN - ACTIVE CODE.
RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.

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3.10.2 Module List

The following is a list of all the modules being documented here along with their purpose. Each module has a unique name, no matter what language it was written in.

NTM/MONITOR Module List

Module Name -----	Purpose -----
ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
APCINI	INITIALIZE THE AP CLUSTER STATUS TABLE.
APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
APCSTS	APC START UP SUCCESSFUL PROCESSING.
AUTINI	INITIALIZE THE AUTHORITY TABLE.
BLDTBL	POPULATE THE NTM GLOBAL TABLES.
CATINI	INITIALIZE THE MESSAGE CATEGORY TABLE.
CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
DIRINI	INITIALIZE THE DIRECTORY TABLE.
DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
GETCHL	GET THE THE CHANNEL ID FOR A MESSAGE TO BE SENT.
GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
GETDST	DETERMINE DEST OF THE ORIG MSG WHOSE RESPONSE HAS TIMED OUT.

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NTM/MONITOR Module List

Module Name -----	Purpose -----
GETTRM	GET THE TERMINAL ID OF THE IISS SYSTEM CONSOLE.
GRDINI	INITIALIZE THE GUARANTEED DELIVERY TABLE.
GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
HEXSTS	CONVERT INTEGER VAX STATUS TO HEXIDEcimal.
HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
HSTINI	INITIALIZE THE HOST STATUS TABLE.
INICON	INITIALIZE THE CONSOLE TERMINAL INTERFACE.
INITAC	INITIATE AN APC.
INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
INTMTR	INITIALIZE THE MONITOR WORKSTATION.
LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
LOGINI	INITIALIZE THE LOGON TABLE.
LOGTBL	TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
LSTINI	INITIALIZE THE LINK STATUS TABLE.
MESGAA	HANDLE ACTIVE AP LIST MESSAGES.

NTM/MONITOR Module List

Module Name -----	Purpose -----
MESGAI	PROCESS AP INTERFACE ERROR MESSAGES.
MESGAM	HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGCR	HANDLE CHANGE ROLE MESSAGES.
MESGCT	HANDLE APC TERMINATED MESSAGES.
MESGHA	PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
MESGHT	HANDLE HOST TERMINATED MESSAGES.
MESGLA	PROCESS A LINK ACTIVE MESSAGE.
MESGLF	HANDLE A LINK FAILED MESSAGE.
MESGLO	HANDLE LOGON MESSAGES.
MESGLV	HANDLE APC ALIVE MESSAGE.
MESGMQ	HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
MESGMT	HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
MESGNL	HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
MESGNP	PROCESS AP NOT FOUND MESSAGE FROM AN APC.
MESGOF	HANDLE LOGOFF MESSAGES.
MESGPE	HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.
MESGRE	HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.

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NTM/MONITOR Module List

Module Name -----	Purpose -----
MESGRU	HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
MESGSE	DISPLAY SIGERR MESSAGES AT OP CONSOLE.
MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
MESGUA	PROCESS APC TABLE UPDATE MESSAGES.
MESGUH	PROCESS HOST STATUS TABLE UPDATE MESSAGES.
MESGUT	HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
MESGXU	HANDLE GETUSR MESSAGES.
MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
MTRGEN	PURPOSE NOT KNOWN - ACTIVE CODE.
MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
PRCCON	PROCESS CONSOLE INPUT.
PRCMSG	PROCESS MESSAGE.
PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.

NTM/MONITOR Module List

Module Name -----	Purpose -----
RCVCON	RECEIVE FROM A TERMINAL.
READCN	INITIALIZE A CONSOLE READ.
RQACSD	REQUEST THE SHUTDOWN OF AN APC.
RQRHSD	REQUEST THE SHUTDOWN OF A REMOTE HOST.
RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SDALCP	REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
SDALRH	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
SDLINK	START A COMM LINK PER OPERATOR COMMAND.
SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.

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NTM/MONITOR Module List

Module Name -----	Purpose -----
SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
SNDCON	SEND TO A TERMINAL.
SNHOAC	SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S MPU.
SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
SNHOSD	SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE TO A LOCAL MPU.
STCPLT	COMPLETE IISS START-UP PROCESSING.
STLINK	START A COMM LINK PER OPERATOR COMMAND.
STLNKF	START COMM LINK FAILED PROCESSING.
STLNKS	START LINK SUCCESSFUL PROCESSING.
STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
STRTUP	HANDLE IISS START UP PROCESSING.
TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
TMTLSD	PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.

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NTM/MONITOR Module List

Module Name -----	Purpose -----
TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
WTNMSG	GET A MESSAGE FROM THE INPUT MAILBOX.
XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
XLGCMD	EXECUTE A LOG SELECT OPERATOR COMMAND.
XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
XSTCMD	START AN APC PER OPERATOR COMMAND.

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3.10.3 External Routines List

The following is a list of all routines or functions not documented here that are called by modules that are documented here. The first caller, in alphabetical order, is listed as well. The specification in which any module is documented may be found in the Module Documentation Index (Document Number CM 620100001). See section 3.10.6 for a list of the modules that call each of these external routines.

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NTM/MONITOR External Routines List

Module Name	First User
-----	-----
ASCTIM	LOGTBL
CNLTIM	PRCTSR
CRTMBX	INTMTR
CRTPRC	INTMTR
DELMBX	SDMNTR
ENDRUN	MONITR
ERRPRO	CNLCON
FREVTf	GETCON
GETMSG	SDMNTR
ITMADR	CGSHST
LIB\$GET_EF	RCVCON
MBXLOG	LOGTBL
RCVMSG	SDMNTR
RELEVB	MONITR
SETTIM	PRCTSR
SNDMSG	SENDMG
SYSS\$ASSIGN	INICON
SYSS\$CANCEL	CNLCON
SYSS\$CRMPSC	CGSHST
SYSS\$QIO	RCVCON
SYSS\$QIOW	SNDCON
SYSS\$TRNLOG	GETTRM
WAIT01	GTINST
WAIT02	WTHOAV
WAIT03	MTRSYS

3.10.4 Include File List

The following is a list of all include files called in by modules being documented here. Each include file has a unique name regardless of the language being used. The purpose of each include file is listed as well. A more complete description of each include file is given in section 3.10.9. The purpose listed is the one that is in the source code of the include file.

A purpose of "***** PURPOSE NOT FOUND BY STRIPPER *****" indicates that a purpose statement was not written into the include file itself. The most common reason for this is that the include file comes from system libraries that were not developed by the project, such as 'C' libraries that are provided with the 'C' compiler.

See section 3.10.6 for a set of lists which show all the modules which call in each of these include files.

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NTM/MONITOR Include File List

File Name	Purpose
-----	-----
BASYSG	MONITORS DEFAULT SYSGEN DATA
CHKAPC	CHECK APC TYPE
CHKMSG	VALID MSG HEADER STRUCTURE AND MSG TYPES
CHKSTS	CHECK STATUS
CONEBV	CONSOLE EVENT BLOCK DESCRIPTION
DSTNAM	DESTINATION AP NAMES
ERRPRO	PROCESS ERROR INCLUDE FILE
ERRSTS	ERRSTS.INC -- IISS ERROR CODES
EVBLKS	IPC EVENT BLOCKS
FILERR	THE NTM QUEUE ERROR FILE
FMTHDR	HEADER FORMAT DATA STRUCTURE
HSTGLD	HOST GLOBAL SECTION PARAMETERS
HSTGLE	INITIATION CODE FOR HOST GLOBAL SECTIONS
HSTLNK	HOST LINK TABLE
INTHST	INITIATION CODE FOR HOSTLINKS
IPCARG	IPC ARGUMENTS
LOGDAT	LOGTASK ARGUMENTS
LOGNAM	LOGTASK NAME
LOGSEL	STRUCTURE FOR SELECTIVE LOGGING INFORMATION.. KEPT IN GLOBAL
MONLOG	LOGTASK MSG
MTRCMN	MONITOR COMMON BLOCK
MTRERR	ERROR MESSAGE CODE
MTRMBF	MESSAGE BUFFER
RETSTR	THE APIS COMMON LOCAL DATA FOR ERROR-RETURNS
SNDARG	ARGUMENTS TO CALL SENDMSG
SYSERR	SYSTEM ERROR CODE DEFINITIONS
TBLAPC	THIS IS THE APC STATUS TABLE... A HOST GLOBAL TABLE
TBLAUT	AUTHORITY TABLE
TBLCAT	MESSAGE CATEGORY TABLE
TBLDIR	THE DIRECTORY TABLE IS A HOST GLOBAL TABLE
TBLGD	THE GUARANTEED DELIVERY TABLE IN AN APC GLOBAL TABLE
TBLHST	HOST STATUS TABLE
TBLLOG	LOGON TABLE
TBLST	LINK STATUS TABLE

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3.10.5 Where Include File Used List

The following lists each include file from 3.10.4 and all the modules documented in this specification which include them. The purpose of each module is listed as well.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
BASYSG	MTRGEN	PURPOSE NOT KNOWN - ACTIVE CODE.
CHKAPC	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
CHKMSG	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGAI	PROCESS AP INTERFACE ERROR MESSAGES.
	MESGAM	HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCR	HANDLE CHANGE ROLE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.

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NTH/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	MESGHA	PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGMQ	HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
	MESGMT	HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
	MESGNL	HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
	MESGNP	PROCESS AP NOT FOUND MESSAGE FROM AN APC.
	MESGOF	HANDLE LOGOFF MESSAGES.
	MESGPE	HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.
	MESGRE	HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
	MESGRU	HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
	MESGSE	DISPLAY SIGERR MESSAGES AT OP CONSOLE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MESGUA	PROCESS APC TABLE UPDATE MESSAGES.
	MESGUH	PROCESS HOST STATUS TABLE UPDATE MESSAGES.
	MESGUT	HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
	MESGXU	HANDLE GETUSR MESSAGES.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCMG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMESG	GET A MESSAGE FROM THE INPUT MAILBOX.
CHKSTS	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
	DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
	GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAC	INITIATE AN APC.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGAA	HANDLE ACTIVE AP LIST MESSAGES.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
MESGCE		PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGCR		HANDLE CHANGE ROLE MESSAGES.
MESGCT		HANDLE APC TERMINATED MESSAGES.
MESGHA		PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
MESGHT		HANDLE HOST TERMINATED MESSAGES.
MESGLA		PROCESS A LINK ACTIVE MESSAGE.
MESGLF		HANDLE A LINK FAILED MESSAGE.
MESGLO		HANDLE LOGON MESSAGES.
MESGLV		HANDLE APC ALIVE MESSAGE.
MESGOF		HANDLE LOGOFF MESSAGES.
MESGSH		HANDLE A SHUTDOWN HOST MESSAGE.
MESGXU		HANDLE GETUSR MESSAGES.
MONITR		MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
MTRSYS		CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
PRCCON		PROCESS CONSOLE INPUT.
PRCMMSG		PROCESS MESSAGE.
PRCSSR		PROCESS APC START UP STATUS RETURN AT IISS START UP.
PRCTMR		HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
PRCTSR		PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
PRSLKR		PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
RCVCON		RECEIVE FROM A TERMINAL.
READCN		INITIALIZE A CONSOLE READ.
RQACSD		REQUEST THE SHUTDOWN OF AN APC.
RQRHSD		REQUEST THE SHUTDOWN OF A REMOTE HOST.
RQSTLK		DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
SCDONE		COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SDALCP		REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
SDALNC		REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
SDALRH		REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
SDCNCL		CANCEL SHUTDOWN PER OPERATOR COMMAND.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
	SNHOAC	SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S MPU.
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
	SNHOSD	SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE TO A LOCAL MPU.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKF	START COMM LINK FAILED PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TMTLSD	PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMESG	GET A MESSAGE FROM THE INPUT MAILBOX.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
	XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
	XLGCMC	EXECUTE A LOG SELECT OPERATOR COMMAND.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.
CONEVB	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
	GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
	INICON	INITIALIZE THE CONSOLE TERMINAL INTERFACE.
	RCVCON	RECEIVE FROM A TERMINAL.
	SNDCON	SEND TO A TERMINAL.
DSTNAM	GETCHL	GET THE THE CHANNEL ID FOR A MESSAGE TO BE SENT.
	GETDST	DETERMINE DEST OF THE ORIG MSG WHOSE RESPONSE HAS TIMED OUT.
ERRPRO	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	RCVCON	RECEIVE FROM A TERMINAL.
ERRSTS		
	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
	GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
	INICON	INITIALIZE THE CONSOLE TERMINAL INTERFACE.
	RCVCON	RECEIVE FROM A TERMINAL.
	SNDCON	SEND TO A TERMINAL.
EVLKLS		
	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAC	INITIATE AN APC.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGAA	HANDLE ACTIVE AP LIST MESSAGES.
	MESGAI	PROCESS AP INTERFACE ERROR MESSAGES.
	MESGAM	HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCR	HANDLE CHANGE ROLE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	MESGHA	PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGMQ	HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
	MESGMT	HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
	MESGNL	HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
	MESGNP	PROCESS AP NOT FOUND MESSAGE FROM AN APC.
	MESGOF	HANDLE LOGOFF MESSAGES.
	MESGPE	HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.
	MESGRE	HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
	MESGRU	HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
	MESGSE	DISPLAY SIGERR MESSAGES AT OP CONSOLE.
	MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MESGUT	HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMSG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	READCN	INITIALIZE A CONSOLE READ.
	RQACSD	REQUEST THE SHUTDOWN OF AN APC.
	RQRHSD	REQUEST THE SHUTDOWN OF A REMOTE HOST.
	RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDALCP	REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
	SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
	SDALRH	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
	SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
	SNHOAC	SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S MPU.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
	SNHOSD	SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE TO A LOCAL MPU.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKF	START COMM LINK FAILED PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TMTLSD	PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMESG	GET A MESSAGE FROM THE INPUT MAILBOX.
	XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
	XLGCMD	EXECUTE A LOG SELECT OPERATOR COMMAND.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	LOGTBL	TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
FMTHDR	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
HSTGLD	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
HSTGLE	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
HSTLNK	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAC	INITIATE AN APC.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
MESGHA		PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
MESGHT		HANDLE HOST TERMINATED MESSAGES.
MESGLA		PROCESS A LINK ACTIVE MESSAGE.
MESGLF		HANDLE A LINK FAILED MESSAGE.
MESGLV		HANDLE APC ALIVE MESSAGE.
MESGSH		HANDLE A SHUTDOWN HOST MESSAGE.
MESGTE		PROCESS TIMEOUT EXPIRED MESSAGES.
MESGXU		HANDLE GETUSR MESSAGES.
MONITR		MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
MTRSYS		CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
PRCCON		PROCESS CONSOLE INPUT.
PRCMMSG		PROCESS MESSAGE.
PRCSSR		PROCESS APC START UP STATUS RETURN AT IISS START UP.
PRCTMR		HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
PRCTSR		PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
PRSLKR		PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
RQRHSD		REQUEST THE SHUTDOWN OF A REMOTE HOST.
RQSTLK		DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
SCDONE		COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SDALRH		REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
SDLINK		START A COMM LINK PER OPERATOR COMMAND.
SDMNTR		UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
SDNAPC		SHUTDOWN AN APC PER OPERATOR REQUEST.
SDRHNC		REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
SDSTAT		PROCESSES ALL SHUTDOWN STATUS RETURNS.
SHTDWN		MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SLDONE		PROCESS START LINK STATUS RETURN MESSAGES.
SNACUP		SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.
INTHST	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
IPCARG	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	APCSTS	APC START UP SUCCESSFUL PROCESSING.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGAA	HANDLE ACTIVE AP LIST MESSAGES.
	MESGAI	PROCESS AP INTERFACE ERROR MESSAGES.
	MESGAM	HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCR	HANDLE CHANGE ROLE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGMQ	HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
	MESGMT	HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
	MESGNL	HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
	MESGNP	PROCESS AP NOT FOUND MESSAGE FROM AN APC.
	MESGOF	HANDLE LOGOFF MESSAGES.
	MESGPE	HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	MESGRE	HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
	MESGRU	HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
	MESGSE	DISPLAY SIGERR MESSAGES AT OP CONSOLE.
	MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MESGUT	HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMSG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	READCN	INITIALIZE A CONSOLE READ.
	RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDALCP	REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
	SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
	SDALRH	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
	SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKF	START COMM LINK FAILED PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STRTAC	PROCEDURE TO START AN APC PER OPERATOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TMTLSD	PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMESG	GET A MESSAGE FROM THE INPUT MAILBOX.
	XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
	XLGCMC	EXECUTE A LOG SELECT OPERATOR COMMAND.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.
LOGDAT	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
LOGNAM	INTMTR	INITIALIZE THE MONITOR WORKSTATION.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
LOGSEL		
	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	XLGCMD	EXECUTE A LOG SELECT OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
MONLOG		
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
MTRCMN		
	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	GETDST	DETERMINE DEST OF THE ORIG MSG WHOSE RESPONSE HAS TIMED OUT.
	GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAC	INITIATE AN APC.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGAA	HANDLE ACTIVE AP LIST MESSAGES.
	MESGAI	PROCESS AP INTERFACE ERROR MESSAGES.
	MESGAM	HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCR	HANDLE CHANGE ROLE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	MESGHA	PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGMQ	HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
	MESGMT	HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
	MESGNL	HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
	MESGNP	PROCESS AP NOT FOUND MESSAGE FROM AN APC.
	MESGOF	HANDLE LOGOFF MESSAGES.
	MESGPE	HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.

WTH/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
	MESGRE	HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
	MESGRU	HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
	MESGSE	DISPLAY SIGERR MESSAGES AT OP CONSOLE.
	MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MESGUA	PROCESS APC TABLE UPDATE MESSAGES.
	MESGUH	PROCESS HOST STATUS TABLE UPDATE MESSAGES.
	MESGUT	HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMSG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	READCN	INITIALIZE A CONSOLE READ.
	RQACSD	REQUEST THE SHUTDOWN OF AN APC.
	RQRHSD	REQUEST THE SHUTDOWN OF A REMOTE HOST.
	RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDALCP	REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
	SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
	SDALRH	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
	SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
	SNHOAC	SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S MPU.
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
	SNHOSD	SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE TO A LOCAL MPU.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKF	START COMM LINK FAILED PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TMTLSD	PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMSG	GET A MESSAGE FROM THE INPUT MAILBOX.
	XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	XLGCMD	EXECUTE A LOG SELECT OPERATOR COMMAND.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.
MTRERR	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
MTRMBF	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	DADONE	COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAC	INITIATE AN APC.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGAA	HANDLE ACTIVE AP LIST MESSAGES.
	MESGAI	PROCESS AP INTERFACE ERROR MESSAGES.
	MESGAM	HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCR	HANDLE CHANGE ROLE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	MESGHA	PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGMQ	HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
	MESGMT	HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
	MESGNL	HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
	MESGNP	PROCESS AP NOT FOUND MESSAGE FROM AN APC.
	MESGOF	HANDLE LOGOFF MESSAGES.
	MESGPE	HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.
	MESGRE	HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
	MESGRU	HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
	MESGSE	DISPLAY SIGERR MESSAGES AT OP CONSOLE.
	MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MESGUA	PROCESS APC TABLE UPDATE MESSAGES.
	MESGUH	PROCESS HOST STATUS TABLE UPDATE MESSAGES.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
	MESGUT	HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	READCN	INITIALIZE A CONSOLE READ.
	RQACSD	REQUEST THE SHUTDOWN OF AN APC.
	RQRHSD	REQUEST THE SHUTDOWN OF A REMOTE HOST.
	RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDALCP	REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
	SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
	SDALRH	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
	SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKF	START COMM LINK FAILED PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TMTLSD	PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMSG	GET A MESSAGE FROM THE INPUT MAILBOX.
	XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
	XLGCMD	EXECUTE A LOG SELECT OPERATOR COMMAND.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.

RETSTR

LOGTSK LOG THE MESSAGE IN THE MESSAGE LOG FILE.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
SNDARG		
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	INITAC	INITIATE AN APC.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGXU	HANDLE GETUSR MESSAGES.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	RQACSD	REQUEST THE SHUTDOWN OF AN APC.
	RQRHSD	REQUEST THE SHUTDOWN OF A REMOTE HOST.
	RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
	SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
	SNHOAC	SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S MPU.
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.

NTM/MONITOR Where-include-file-used List

Include File	Module Name	Module Purpose
-----	-----	-----
	SNHOSD	SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE TO A LOCAL MPU.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STNTCH	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	TRNTCH	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.

SYSERR

APCINI	INITIALIZE THE AP CLUSTER STATUS TABLE.
AUTINI	INITIALIZE THE AUTHORITY TABLE.
CATINI	INITIALIZE THE MESSAGE CATEGORY TABLE.
DIRINI	INITIALIZE THE DIRECTORY TABLE.
GRDINI	INITIALIZE THE GUARANTEED DELIVERY TABLE.
HSTINI	INITIALIZE THE HOST STATUS TABLE.
LOGINI	INITIALIZE THE LOGON TABLE.
LOGTBL	TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
LSTINI	INITIALIZE THE LINK STATUS TABLE.

TBLAPC

ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
APCINI	INITIALIZE THE AP CLUSTER STATUS TABLE.
APCSTF	HANDLES THE FAIL CONDITION OF AN APC UPON IT'S START UP.
APCSTS	APC START UP SUCCESSFUL PROCESSING.
BLDTBL	POPULATE THE NTM GLOBAL TABLES.
CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	DSPACT	SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	HOSDSR	PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
	INITAC	INITIATE AN APC.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	MESGHA	PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MESGUA	PROCESS APC TABLE UPDATE MESSAGES.
	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	RQACSD	REQUEST THE SHUTDOWN OF AN APC.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDALCP	REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
	SDALNC	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	SNHOAV	SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	XDACMD	HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	AUTINI	INITIALIZE THE AUTHORITY TABLE.
TBLCAT	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	CATINI	INITIALIZE THE MESSAGE CATEGORY TABLE.
	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
TBLDIR	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
	DIRINI	INITIALIZE THE DIRECTORY TABLE.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
TBLGDD	GRDINI	INITIALIZE THE GUARANTEED DELIVERY TABLE.
TBLHST	ACSDSR	HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
	APCSTS	APC START UP SUCCESSFUL PROCESSING.
	BLDTBL	POPULATE THE NTM GLOBAL TABLES.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
CGSHST		CREATE AND MAP MONITOR GLOBAL TABLES.
DSTATS		DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
HOSDSR		PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
HSTINI		INITIALIZE THE HOST STATUS TABLE.
INITAC		INITIATE AN APC.
INITAE		INITIALIZE ASYNCHRONOUS EVENTS.
INTMTR		INITIALIZE THE MONITOR WORKSTATION.
LKTOCN		ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
LSDONE		PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
MESGCE		PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGCT		HANDLE APC TERMINATED MESSAGES.
MESGHA		PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
MESGHT		HANDLE HOST TERMINATED MESSAGES.
MESGLA		PROCESS A LINK ACTIVE MESSAGE.
MESGLF		HANDLE A LINK FAILED MESSAGE.
MESGLV		HANDLE APC ALIVE MESSAGE.
MESGSH		HANDLE A SHUTDOWN HOST MESSAGE.
MESGTE		PROCESS TIMEOUT EXPIRED MESSAGES.
MESGUH		PROCESS HOST STATUS TABLE UPDATE MESSAGES.
MONITR		MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
MTRSYS		CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
PRCCON		PROCESS CONSOLE INPUT.
PRCMSG		PROCESS MESSAGE.
PRCSSR		PROCESS APC START UP STATUS RETURN AT IISS START UP.
PRCTMR		HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
PRCTSR		PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
PRSLKR		PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
RQSTLK		DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDALRH	REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	SDNAPC	SHUTDOWN AN APC PER OPERATOR REQUEST.
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SNACUP	SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TRNTCM	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSCCMD	SHUTDOWN AN APC PER OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.
TBLLOG	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
	INITAC	INITIATE AN APC.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LOGINI	INITIALIZE THE LOGON TABLE.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	LOGTBL	TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
	MESGCR	HANDLE CHANGE ROLE MESSAGES.
	MESGLO	HANDLE LOGON MESSAGES.
	MESGOF	HANDLE LOGOFF MESSAGES.
	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCM	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.
TBLIST	BLDTBL	POPULATE THE NTM GLOBAL TABLES.
	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.

NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	DSTATS	DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
	INITAC	INITIATE AN APC.
	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LFSDSR	HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
	LKTOCN	ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
	LSDONE	PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
	LSTINI	INITIALIZE THE LINK STATUS TABLE.
	MESGCE	PROCESS APC SHUTDOWN COMPLETE MESSAGES.
	MESGCT	HANDLE APC TERMINATED MESSAGES.
	MESGHT	HANDLE HOST TERMINATED MESSAGES.
	MESGLA	PROCESS A LINK ACTIVE MESSAGE.
	MESGLF	HANDLE A LINK FAILED MESSAGE.
	MESGLV	HANDLE APC ALIVE MESSAGE.
	MESGSH	HANDLE A SHUTDOWN HOST MESSAGE.
	MESGTE	PROCESS TIMEOUT EXPIRED MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCCON	PROCESS CONSOLE INPUT.
	PRCMMSG	PROCESS MESSAGE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTMR	HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	PRSLKR	PROCESS START LINK STATUS RETURN MESSAGES AT IISS START UP.
	RQSTLK	DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	SCDONE	COMPLETE SHUTDOWN APC COMMAND PROCESSING.
	SDLINK	START A COMM LINK PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.

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NTM/MONITOR Where-include-file-used List

Include File -----	Module Name -----	Module Purpose -----
	SDRHNC	REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
	SDSTAT	PROCESSES ALL SHUTDOWN STATUS RETURNS.
	SHTDWN	MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
	SLDONE	PROCESS START LINK STATUS RETURN MESSAGES.
	STCPLT	COMPLETE IISS START-UP PROCESSING.
	STLINK	START A COMM LINK PER OPERATOR COMMAND.
	STLNKF	START COMM LINK FAILED PROCESSING.
	STLNKS	START LINK SUCCESSFUL PROCESSING.
	STLOAC	PROCEDURE TO START ALL LOCAL APC'S AT START UP.
	STNTCH	START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	STRTUP	HANDLE IISS START UP PROCESSING.
	TESDSR	HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
	TRNTCH	SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	XLSCMD	SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
	XSDCMD	EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
	XSLCMD	START A COMM LINK PER OPERATOR COMMAND.
	XSTCMD	START AN APC PER OPERATOR COMMAND.

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3.10.6 Where External Routine Used List

The following lists each external function or routine listed in 3.10.3 and all the documented modules which call it. The purpose of each module is listed as well.

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NTM/MONITOR Where-external-routine-used List

System Module -----	Module Name -----	Module Purpose -----
ASCTIM	LOGTBL	TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
CNLTIM	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	SDCNCL	CANCEL SHUTDOWN PER OPERATOR COMMAND.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
CRTMBX	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
CRTPRC	INTMTR	INITIALIZE THE MONITOR WORKSTATION.
DELMBX	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
ENDRUN	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

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NTM/MONITOR Where-external-routine-used List

System Module -----	Module Name -----	Module Purpose -----
ERRPRO	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
	DSPERR	DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
	GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	RCVCON	RECEIVE FROM A TERMINAL.
FREVTf	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
	GETCON	GET A MESSAGE RECEIVED FROM A TERMINAL.
GETMSG	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMSG	GET A MESSAGE FROM THE INPUT MAILBOX.

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NTM/MONITOR Where-external-routine-used List

System Module -----	Module Name -----	Module Purpose -----
	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
LIB\$GET_EF	RCVCON	RECEIVE FROM A TERMINAL.
MBXLOG	LOGTBL	TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
RCVMSG	INITAE	INITIALIZE ASYNCHRONOUS EVENTS.
	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	STRTAC	PROCEDURE TO START AN APC PER OPERTOR COMMAND.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
	WTMSG	GET A MESSAGE FROM THE INPUT MAILBOX.
RELEV	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

NTM/MONITOR Where-external-routine-used List

System Module -----	Module Name -----	Module Purpose -----
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
SETTIM	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	TELUSR	NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.
SNDMSG	MESGXU	HANDLE GETUSR MESSAGES.
	MONITR	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	SENDMG	FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
	XOPCMD	EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
SYS\$ASSIGN	INICON	INITIALIZE THE CONSOLE TERMINAL INTERFACE.
SYS\$CANCEL	CNLCON	CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.

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NTM/MONITOR Where-external-routine-used List

System Module -----	Module Name -----	Module Purpose -----
SYSSCRMPSC		
	CGSHST	CREATE AND MAP MONITOR GLOBAL TABLES.
SYSSQIO		
	RCVCON	RECEIVE FROM A TERMINAL.
SYS\$,OW		
	SNDCON	SEND TO A TERMINAL.
SYS\$TRNLOG		
	GETTRM	GET THE TERMINAL ID OF THE IISS SYSTEM CONSOLE.
WAIT01		
	GTINST	PURPOSE NOT KNOWN - ACTIVE CODE.
	LOGTSK	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
	WTMESG	GET A MESSAGE FROM THE INPUT MAILBOX.
WAIT02		
	PRCSSR	PROCESS APC START UP STATUS RETURN AT IISS START UP.
	PRCTSR	PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
	SDMNTR	UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
	WTHOAV	PROCESS A HOST AVAILABLE MESSAGE FROM THE CENTRAL NODE.

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NTM/MONITOR Where-external-routine-used List

System Module -----	Module Name -----	Module Purpose -----
WAIT03	MTRSYS	CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.

3.10.7 Main Program Parts List

The following lists each Main Program listed in 3.10.1 and all the modules which are called either by that module itself or by any of the documented modules which it calls. It is possible for a non-main module to be listed more than once if it is called by multiple modules. The called modules, in this case known as program parts, are marked as to whether they are documented here. If so, the phrase "well-defined module" appears by the module name, if not it is an "external routine". The Purpose of the Main Program module is listed as well.

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NTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GTINST		Purpose---, PURPOSE NOT KNOWN - ACTIVE CODE.
	ERRPRO	External routine
	FREVTf	External routine
	GETCON	Well-defined module
	HEXSTS	Well-defined module
	LIB\$GET_EF	External routine
	RCVCON	Well-defined module
	READCN	Well-defined module
	SNDCON	Well-defined module
	SY\$QIO	External routine
	SY\$QIOW	External routine
	WAIT01	External routine

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NTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
LOGTSK	Purpose--	LOG THE MESSAGE IN THE MESSAGE LOG FILE.
	CRTMBX	External routine
	DELMBX	External routine
	ERRPRO	External routine
	GETMSG	External routine
	RCVMSG	External routine
	WAIT01	External routine

WTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
MONITR	Purpose-->	MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
	ACSDSR	Well-defined module
	APCINI	Well-defined module
	APCSTF	Well-defined module
	APCSTS	Well-defined module
	ASCTIM	External routine
	BLDTBL	Well-defined module
	CATINI	Well-defined module
	CGSHST	Well-defined module
	CNLCON	Well-defined module
	CNLTIM	External routine
	CRTMBX	External routine
	CRTPRC	External routine
	DADONE	Well-defined module
	DELMBX	External routine
	DIRINI	Well-defined module
	DSPACT	Well-defined module
	DSPERR	Well-defined module
	DSTATS	Well-defined module
	ENDRUN	External routine
	ERRPRO	External routine
	FREVTf	External routine
	GETCHL	Well-defined module
	GETCON	Well-defined module
	GETDST	Well-defined module
	GETMSG	External routine
	GETTRM	Well-defined module
	HEXSTS	Well-defined module
	HOSDSR	Well-defined module
	HSTINI	Well-defined module
	INICON	Well-defined module
	INITAC	Well-defined module
	INITAE	Well-defined module
	INTMTR	Well-defined module
	ITMADR	External routine
	LFSDSR	Well-defined module
	LIB\$GET_EF	External routine
	LKTOCN	Well-defined module
	LOGINI	Well-defined module

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NTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	LOGTBL	Well-defined module
	LSDONE	Well-defined module
	LSTINI	Well-defined module
	MBXLOG	External routine
	MESGAA	Well-defined module
	MESGAI	Well-defined module
	MESGAM	Well-defined module
	MESGCE	Well-defined module
	MESGCR	Well-defined module
	MESGCT	Well-defined module
	MESGHA	Well-defined module
	MESGHT	Well-defined module
	MESGLA	Well-defined module
	MESGLF	Well-defined module
	MESGLO	Well-defined module
	MESGLV	Well-defined module
	MESGMQ	Well-defined module
	MESGMT	Well-defined module
	MESGNL	Well-defined module
	MESGNP	Well-defined module
	MESGOF	Well-defined module
	MESGPE	Well-defined module
	MESGRE	Well-defined module
	MESGRU	Well-defined module
	MESGSE	Well-defined module
	MESGSH	Well-defined module
	MESGTE	Well-defined module
	MESGUA	Well-defined module
	MESGUH	Well-defined module
	MESGUT	Well-defined module
	MESGXU	Well-defined module
	MTRSYS	Well-defined module
	PRCCON	Well-defined module
	PRCMMSG	Well-defined module
	PRCSSR	Well-defined module
	PRCTMR	Well-defined module
	PRCTSR	Well-defined module
	PRSLKR	Well-defined module
	RCVCON	Well-defined module
	RCVMSG	External routine

NTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	READCN	Well-defined module
	RELEVB	External routine
	RQACSD	Well-defined module
	RQRHSD	Well-defined module
	SCDONE	Well-defined module
	SDALCP	Well-defined module
	SDALNC	Well-defined module
	SDALRH	Well-defined module
	SDCNCL	Well-defined module
	SDLINK	Well-defined module
	SDMNTR	Well-defined module
	SDNAPC	Well-defined module
	SDRHNC	Well-defined module
	SDSTAT	Well-defined module
	SENDMG	Well-defined module
	SETTIM	External routine
	SHTDWN	Well-defined module
	SLDONE	Well-defined module
	SNACUP	Well-defined module
	SNDCON	Well-defined module
	SNDMSG	External routine
	SNHOAC	Well-defined module
	SNHOAV	Well-defined module
	SNHOSD	Well-defined module
	STCPLT	Well-defined module
	STLINK	Well-defined module
	STLNKF	Well-defined module
	STLNKS	Well-defined module
	STLOAC	Well-defined module
	STNTCH	Well-defined module
	STRTAC	Well-defined module
	STRTUP	Well-defined module
	SYS\$ASSIGN	External routine
	SYS\$CANCEL	External routine
	SYS\$CRMPSC	External routine
	SYS\$QIO	External routine
	SYS\$QIOW	External routine
	SYS\$TRNLOG	External routine
	TELUSR	Well-defined module
	TESDSR	Well-defined module

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NTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	TMTLSD	Well-defined module
	TRNTCM	Well-defined module
	WAIT01	External routine
	WAIT02	External routine
	WAIT03	External routine
	WTHOAV	Well-defined module
	WTMESG	Well-defined module
	XDACMD	Well-defined module
	XLGCMD	Well-defined module
	XLSCMD	Well-defined module
	XOPCMD	Well-defined module
	XSCCMD	Well-defined module
	XSDCMD	Well-defined module
	XSLCMD	Well-defined module
	XSTCMD	Well-defined module

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NTM/MONITOR Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
RQSTLK		Purpose--> DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
	GETCHL	Well-defined module
	HEXSTS	Well-defined module
	SENDMG	Well-defined module
	SNDCON	Well-defined module
	SNDMSG	External routine
	STLNKF	Well-defined module
	SYSSQIOW	External routine

3.10.8 Module Documentation

The following documentation describes information which is specific to each individual module being documented in this specification as listed in section 3.10.2. It provides a compact way of getting information that would be otherwise buried within each module's source code.

The specific items in this module documentation have the following meanings:

NAME:	Name of program Module.
PURPOSE:	Purpose of Module as detailed in the source code.
LANGUAGE:	Programming language source code is written in. The choices are: VAX-11 FORTRAN (I/S-1 Workbench 'C') VAX-11 COBOL
MODULE TYPE:	Whether a Program, Subroutine, or Function.
SOURCE FILE:	Name of Source File from file specification.
SOURCE FILE TYPE:	Source File Extension from file specification.
HOST:	Whether this is a host-dependent routine (VAX or IBM) or blank if host-independent.
SUBSYSTEM:	IISS sub-system this file resides in.
SUBDIRECTORY:	Sub-directory of that subsystem in which this file resides.
DOCUMENTATION GROUP:	Name of documentation group of which this source file is a member.
DESCRIPTION:	A description of the module as obtained from the source code.

ARGUMENTS: The arguments with which this routine is called if it is a Subroutine or a Function.

INCLUDE FILES: A list of all the files that are included into this module as well as their purposes.

ROUTINES CALLED: Subroutines or Functions, either documented or external, called by this module, if any.

CALLED DIRECTLY BY: The documented routines which call this module, if any.

USED IN MAIN PROGRAM(S): The documented Main Programs which contain this module in their parts list according to the list in section 3.10.7.

The Module Documentation is arranged alphabetically according to Module Name.

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NTM/MONITOR Module Documentation

NAME: ACSDSR
PURPOSE: HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: ACSDSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
HOST-STATUS-TABLE = RECRD
AP-CLUSTER-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
TBLHST - HOST STATUS TABLE
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
MTRMBF - MESSAGE BUFFER
EVBLKS - IPC EVENT BLOCKS

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

SDSTAT - PROCESSES ALL SHUTDOWN STATUS RETURNS.
TESDSR - HANDLE A TIMEOUT EXPIRED MESSAGE DURING
 SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: APCINI
PURPOSE: INITIALIZE THE AP CLUSTER STATUS TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: APCINI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

AP-CLUSTER-STATUS-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.

CALLED DIRECTLY BY:

BLDTBL - POPULATE THE NTM GLOBAL TABLES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: APCSTF
PURPOSE: HANDLES THE FAIL CONDITION OF AN APC UPON
IT'S START UP.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: APCSTF
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

FAILED-APC-NAME = DSPLY [X(3)]
ERROR-CODE = DSPLY [X(5)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
EVLKBS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER
MTRERR - ERROR MESSAGE CODE

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

INITAC - INITIATE AN APC.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: APCSTS
PURPOSE: APC START UP SUCCESSFUL PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: APCSTS
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

ALIVE-APC-NAME = DSPLY [X(3)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKAPC - CHECK APC TYPE
CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
HSTLNK - HOST LINK TABLE
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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SNDCON - SEND TO A TERMINAL.
SNACUP - SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
SNHOAC - SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S
MPU.

CALLED DIRECTLY BY:

INITAC - INITIATE AN APC.
INTMTR - INITIALIZE THE MONITOR WORKSTATION.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: AUTINI
PURPOSE: INITIALIZE THE AUTHORITY TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: AUTINI
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

AUTHORITY-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLAUT - AUTHORITY TABLE

NTM/MONITOR Module Documentation

NAME: BLDTBL
PURPOSE: POPULATE THE NTM GLOBAL TABLES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: BLDTBL
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
MESSAGE-CATEGORY-TABLE = RECRD
DIRECTORY-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
TBLCAT - MESSAGE CATEGORY TABLE
TBLDIR - THE DIRECTORY TABLE IS A HOST GLOBAL TABLE.
EVLKBS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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HSTINI - INITIALIZE THE HOST STATUS TABLE.
APCINI - INITIALIZE THE AP CLUSTER STATUS TABLE.
LSTINI - INITIALIZE THE LINK STATUS TABLE.
CATINI - INITIALIZE THE MESSAGE CATEGORY TABLE.
DIRINI - INITIALIZE THE DIRECTORY TABLE.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

INTMTR - INITIALIZE THE MONITOR WORKSTATION.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: CATINI
PURPOSE: INITIALIZE THE MESSAGE CATEGORY TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: CATINI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MESSAGE-CATEGORY-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLCAT - MESSAGE CATEGORY TABLE

CALLED DIRECTLY BY:

BLDTBL - POPULATE THE NTM GLOBAL TABLES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: CGSHST
PURPOSE: CREATE AND MAP MONITOR GLOBAL TABLES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: CGSHST
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

IISS-INSTANCE = DSPLY [X]

INCLUDE FILES:

HSTGLD	- HOST GLOBAL SECTION PARAMETERS
TBLHST	- HOST STATUS TABLE
TBLAPC	- THIS IS THE APC STATUS TABLE.... A HOST GLOBAL TABLE.
TBLLST	- LINK STATUS TABLE
TBLLOG	- LOGON TABLE
TBLCAT	- MESSAGE CATEGORY TABLE
TBLDIR	- THE DIRECTORY TABLE IS A HOST GLOBAL TABLE.
LOGSEL	- STRUCTURE FOR SELECTIVE LOGGING INFORMATION.. KEPT IN GLOBAL.
HSTGLE	- INITIATION CODE FOR HOST GLOBAL SECTIONS
INTHST	- INITIATION CODE FOR HOSTLINKS

ROUTINES CALLED:

ITHADR
SYS\$CRMPSC

CALLED DIRECTLY BY:

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: CNLCON
PURPOSE: CANCEL AN OUTSTANDING TERMINAL RECEIVE
REQUEST.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: CNLCON
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

CONSOLE-EVENT-BLOCK = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
ERRSTS - ERRSTS.INC -- IISS ERROR CODES
CONEVB - CONSOLE EVENT BLOCK DESCRIPTION
ERRPRO - PROCESS ERROR INCLUDE FILE

ROUTINES CALLED:

SYS\$CANCEL
HEXSTS - CONVERT INTEGER VAX STATUS TO HEXIDECIMAL.
FREVT
ERRPRO

CALLED DIRECTLY BY:

SDMNTR - UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR
APC.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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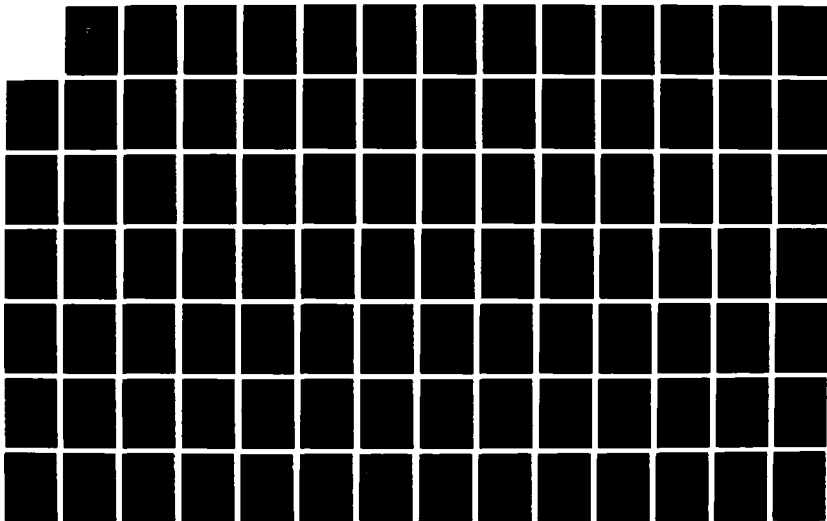
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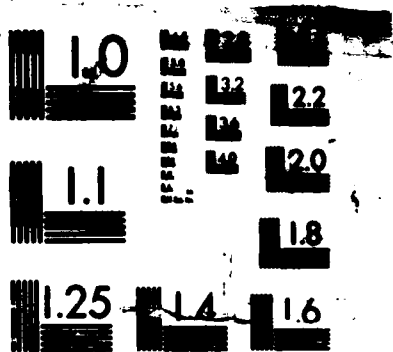
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NTM/MONITOR Module Documentation

NAME: DADONE
PURPOSE: COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: DADONE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

MESGAA - HANDLE ACTIVE AP LIST MESSAGES.
MESGTE - PROCESS TIMEOUT EXPIRED MESSAGES.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: DIRINI
PURPOSE: INITIALIZE THE DIRECTORY TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: DIRINI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

DIRECTORY-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLDIR - THE DIRECTORY TABLE IS A HOST GLOBAL TABLE.

CALLED DIRECTLY BY:

BLDTBL - POPULATE THE NTM GLOBAL TABLES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: DSPACT
PURPOSE: SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: DSPACT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
EVLBS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.
SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

XDAGND - HANDLE THE DISPLAY ACTIVE AP'S COMMAND.

USED IN MAIN PROGRAM(S):

**MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.**

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NTM/MONITOR Module Documentation

NAME: DSPERR
PURPOSE: DISPLAY AN ERROR MESSAGE TO THE OPERATOR
CONSOLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: DSPERR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

ERROR-MODULE = DSPLY [X(6)]
ERROR-CODE = DSPLY [X(5)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
EVLKS - IPC EVENT BLOCKS
MTRCHN - MONITOR COMMON BLOCK
MTRMBF - MESSAGE BUFFER
MTRERR - ERROR MESSAGE CODE
ERRPRO - PROCESS ERROR INCLUDE FILE

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
ERRPRO

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CALLED DIRECTLY BY:

INITAE	- INITIALIZE ASYNCHRONOUS EVENTS.
LKTOCN	- ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
MTRSYS	- CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
SHTDWN	- MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
STRUP	- HANDLE IISS START UP PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

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NTM/MONITOR Module Documentation

NAME: DSTATS
PURPOSE: DISPLAY THE IISS STATUS TO THE OPERATOR
CONSOLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: DSTATS
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
HOST-STATUS-TABLE = RECRD
AP-CLUSTER-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
MTRGMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLLST - LINK STATUS TABLE
TBLHST - HOST STATUS TABLE
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: GETCHL
PURPOSE: GET THE THE CHANNEL ID FOR A MESSAGE TO
BE SENT.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: GETCHL
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MESSAGE-DEST = DSPLY [X(12)]
CHANNEL-ID = DSPLY [XXX]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

DSTNAM - DESTINATION AP NAMES

CALLED DIRECTLY BY:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.
RQSTLK - DURING START UP REQUEST INITIATION OF ALL LOCAL
COMM LINKS.

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NTM/MONITOR Module Documentation

NAME: GETCON
PURPOSE: GET A MESSAGE RECEIVED FROM A TERMINAL.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: GETCON
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

CONSOLE-EVENT-BLOCK = RECRD
INPUT-BUFFER = DSPLY [X(80)]
NO-OF-CHARS = DSPLY [9999]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
ERRSTS - ERRSTS.INC -- IISS ERROR CODES
CONEVB - CONSOLE EVENT BLOCK DESCRIPTION
ERRPRO - PROCESS ERROR INCLUDE FILE

ROUTINES CALLED:

FREVT
ERRPRO

CALLED DIRECTLY BY:

GTINST - PURPOSE NOT KNOWN - ACTIVE CODE.
MTRSYS - CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS
ACTIVE.

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USED IN MAIN PROGRAM(S):

GTINST - PURPOSE NOT KNOWN - ACTIVE CODE.
MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: GETDST
PURPOSE: DETERMINE DEST OF THE ORIG MSG WHOSE
RESPONSE HAS TIMED OUT
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: GETDST
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

CHANNEL-ID = DSPLY [XXX]
ORIGINAL-DEST = RECRD
MONITOR-COMMON-BLOCK = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

DSTNAM - DESTINATION AP NAMES
MTRCMN - MONITOR COMMON BLOCK

CALLED DIRECTLY BY:

MTRSYS - CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS
ACTIVE.
WTMSG - GET A MESSAGE FROM THE INPUT MAILBOX.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: GETTRM
PURPOSE: GET THE TERMINAL ID OF THE IISS SYSTEM
CONSOLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: GETTRM
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

CONSOLE-ID = DSPLY [X(4)]
RET-STATUS = DSPLY [X(5)]

ROUTINES CALLED:

SYS\$TRNLOG

CALLED DIRECTLY BY:

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: GRDINI
PURPOSE: INITIALIZE THE GUARANTEED DELIVERY TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: GRDINI
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

GUAR-DEL-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLGD - THE GUARANTEED DELIVERY TABLE IN AN APC GLOBAL
TABLE.

NTM/MONITOR Module Documentation

NAME: GTINST
PURPOSE: PURPOSE NOT KNOWN - ACTIVE CODE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: GTINST
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
MTRMBF - MESSAGE BUFFER
EVBLKS - IPC EVENT BLOCKS

ROUTINES CALLED:

SNDGON - SEND TO A TERMINAL.
READCN - INITIALIZE A CONSOLE READ.
WAIT01
GETCON - GET A MESSAGE RECEIVED FROM A TERMINAL.

NTM/MONITOR Module Documentation

NAME: HEXSTS
PURPOSE: CONVERT INTEGER VAX STATUS TO HEXIDECIMAL.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: HEXSTS
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

INTEGER = DSPLY [S9(9)]
HEX = DSPLY [X(5)]

CALLED DIRECTLY BY:

CNLCON - CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
INICON - INITIALIZE THE CONSOLE TERMINAL INTERFACE.
INTMTR - INITIALIZE THE MONITOR WORKSTATION.
RCVCON - RECEIVE FROM A TERMINAL.
SNDCON - SEND TO A TERMINAL.

USED IN MAIN PROGRAM(S):

GTINST - PURPOSE NOT KNOWN - ACTIVE CODE.
MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.
RQSTLK - DURING START UP REQUEST INITIATION OF ALL LOCAL
COMM LINKS.

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NTM/MONITOR Module Documentation

NAME: HOSDSR
PURPOSE: PROCESSES HOST TERMINATING MESSAGES
DURING SHUTDOWN.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: HOSDSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
HOST-STATUS-TABLE = RECRD
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
TELHST - HOST STATUS TABLE
TELAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
HSTLNK - HOST LINK TABLE
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

SDSTAT - PROCESSES ALL SHUTDOWN STATUS RETURNS.
TESDSR - HANDLE A TIMEOUT EXPIRED MESSAGE DURING
 SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: HSTINI
PURPOSE: INITIALIZE THE HOST STATUS TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: HSTINI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

HOST-STATUS-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLHST - HOST STATUS TABLE

CALLED DIRECTLY BY:

BLDTBL - POPULATE THE NTM GLOBAL TABLES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

NTM/MONITOR Module Documentation

NAME: INICON
PURPOSE: INITIALIZE THE CONSOLE TERMINAL INTERFACE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: INICON
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

PORT-NAME = DSPLY [X(4)]
CONSOLE-EVENT-BLOCK = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

ERRSTS - ERRSTS.INC -- IISS ERROR CODES
CONEVB - CONSOLE EVENT BLOCK DESCRIPTION

ROUTINES CALLED:

SYSS\$ASSIGN
HEXSTS - CONVERT INTEGER VAX STATUS TO HEXIDEcimal.

CALLED DIRECTLY BY:

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: INITAC
PURPOSE: INITIATE AN APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: INITAC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

INIT-APC-NAME = DSPLY [X(3)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE

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MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
 COMPONENT.
PRCTSR - PROCESS APC TABLE STATUS REQUESTS AT IISS START
 UP.
PRCSSR - PROCESS APC START UP STATUS RETURN AT IISS
 START UP.
APCSTS - APC START UP SUCCESSFUL PROCESSING.
APCSTF - HANDLES THE FAIL CONDITION OF AN APC UPON IT'S
 START UP.

CALLED DIRECTLY BY:

LKTOCN - ESTABLISH THE COMM LINK TO THE CENTRAL NODE
 (VAX) IN THE IISS.
STLOAC - PROCEDURE TO START ALL LOCAL APC'S AT START UP.
STRTAC - PROCEDURE TO START AN APC PER OPERTOR COMMAND.
STRTUP - HANDLE IISS START UP PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: INITAE
PURPOSE: INITIALIZE ASYNCHRONOUS EVENTS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: INITAE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
HOST-STATUS-TABLE = RECRD
AP-CLUSTER-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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READCN	- INITIALIZE A CONSOLE READ.
RCVMSG	
DSPERR	- DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
SNDCON	- SEND TO A TERMINAL.

CALLED DIRECTLY BY:

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: INTMTR
PURPOSE: INITIALIZE THE MONITOR WORKSTATION.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: INTMTR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
MESSAGE-CATEGORY-TABLE = RECRD
HOST-LINK-TABLE = RECRD
DIRECTORY-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
LOGNAM - LOGTASK NAME
IPCARG - IPC ARGUMENTS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE

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TBLLOG	- LOGON TABLE
TBLCAT	- MESSAGE CATEGORY TABLE
TBLDIR	- THE DIRECTORY TABLE IS A HOST GLOBAL TABLE.
HSTLNK	- HOST LINK TABLE
EVBLKS	- IPC EVENT BLOCKS
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

CRTMBX	
LOGINI	- INITIALIZE THE LOGON TABLE.
BLDTBL	- POPULATE THE NTM GLOBAL TABLES.
CRTPRC	
PRCTSR	- PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
PRCSSR	- PROCESS APC START UP STATUS RETURN AT IISS START UP.
APCSTS	- APC START UP SUCCESSFUL PROCESSING.
SENDMG	- FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
HEXSTS	- CONVERT INTEGER VAX STATUS TO HEXIDECIMAL.
SNDCON	- SEND TO A TERMINAL.

CALLED DIRECTLY BY:

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

NTM/MONITOR Module Documentation

NAME: LFSDSR
PURPOSE: HANDLE LINK FAILED STATUS RETURN AT
SHUTDOWN.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: LFSDSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS

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COMPONENT.

CALLED DIRECTLY BY:

SDSTAT - PROCESSES ALL SHUTDOWN STATUS RETURNS.
TESDSR - HANDLE A TIMEOUT EXPIRED MESSAGE DURING
 SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: LKTOCN
PURPOSE: ESTABLISH THE COMM LINK TO THE CENTRAL
NODE (VAX) IN THE II
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: LKTOCN
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE

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HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

INITAC - INITIATE AN APC.
PRSLKR - PROCESS START LINK STATUS RETURN MESSAGES AT
 IISS START UP.
WTHOAV - PROCESS A HOST AVAILABLE MESSAGE FROM THE
 CENTRAL NODE.
DSPERR - DISPLAY AN ERROR MESSAGE TO THE OPERATOR
 CONSOLE.
SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
 COMPONENT.

CALLED DIRECTLY BY:

STRUP - HANDLE IISS START UP PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: LOGINI
PURPOSE: INITIALIZE THE LOGON TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: LOGINI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

LOGON-TABLE = RECRD
RET-CODE =

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLLOG - LOGON TABLE

CALLED DIRECTLY BY:

INTMTR - INITIALIZE THE MONITOR WORKSTATION.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

NTM/MONITOR Module Documentation

NAME: LOGTEL
PURPOSE: TABLE MANAGEMENT FUNCTIONS FOR THE LOGON
TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: LOGTEL
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

LOGON-TABLE = RECRD
FUNCTION-CODE = DSPLY [X(2)]
SEARCH-FIELD = DSPLY [X(30)]
SEARCH-VALUE = DSPLY [X(72)]
SEARCH-START-FLAG = DSPLY [X]
TABLE-INDEX = DSPLY
TABLE-ENTRY-BUFFER = DSPLY [X(72)]
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

FILERR - THE NTM QUEUE ERROR FILE.
SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLLOG - LOGON TABLE

ROUTINES CALLED:

ASCTIM
MBXLOG

CALLED DIRECTLY BY:

MESGCR - HANDLE CHANGE ROLE MESSAGES.

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MESGLO	- HANDLE LOGON MESSAGES.
MESGOF	- HANDLE LOGOFF MESSAGES.
MESGXU	- HANDLE GETUSR MESSAGES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: LOGTSK
PURPOSE: LOG THE MESSAGE IN THE MESSAGE LOG FILE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: PROGRAM
SOURCE FILE: LOGTSK
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

INCLUDE FILES:

RETSTR - THE APIS COMMON LOCAL DATA FOR ERROR-RETURNS.
LOGDAT - LOGTASK ARGUMENTS
ERRPRO - PROCESS ERROR INCLUDE FILE

ROUTINES CALLED:

ERRPRO
CRTMBX
RCVMSG
WAIT01
GETMSG
DELM BX

NTM/MONITOR Module Documentation

NAME: LSDONE
PURPOSE: PROCESS THE COMPLETION OF THE SHUTDOWN
LINK COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: LSDONE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
SNHOSD - SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE
 TO A LOCAL MPU.

CALLED DIRECTLY BY:

MESGLF - HANDLE A LINK FAILED MESSAGE.
MSGTE - PROCESS TIMEOUT EXPIRED MESSAGES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: LSTINI
PURPOSE: INITIALIZE THE LINK STATUS TABLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: LSTINI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

LINK-STATUS-TABLE = RECRD
RET-CODE = DSPLY [X(5)]

INCLUDE FILES:

SYSERR - SYSTEM ERROR CODE DEFINITIONS.
TBLLST - LINK STATUS TABLE

CALLED DIRECTLY BY:

BLDTBL - POPULATE THE NTM GLOBAL TABLES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MMSGAA
PURPOSE: HANDLE ACTIVE AP LIST MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGAA
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

DADONE - COMPLETE DISPLAY ACTIVE AP'S PROCESSING.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGAI
PURPOSE: PROCESS AP INTERFACE ERROR MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGAI
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

NTM/MONITOR Module Documentation

NAME: MMSGAM
PURPOSE: HANDLE A PARENT AP TERMINATED BEFORE IT'S
CHILD AP MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGAM
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MMSGCE
PURPOSE: PROCESS APC SHUTDOWN COMPLETE MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGCE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOSTILNK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SCDONE - COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MMSGCR
PURPOSE: HANDLE CHANGE ROLE MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGCR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LOGON-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
TBLLOG - LOGON TABLE
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

LOGTBL - TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMMSG - PROCESS MESSAGE.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MMSGCT
PURPOSE: HANDLE APC TERMINATED MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGCT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKAPC - CHECK APC TYPE
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESHGA
PURPOSE: PROCESS HOST AVAILABLE MESSAGE RECEIVED
FROM REMOTE MONITOR
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESHGA
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
CHKSTS - CHECK STATUS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
HSTLNK - HOST LINK TABLE
TBLHST - HOST STATUS TABLE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

CALLED DIRECTLY BY:

PRCMMSG - PROCESS MESSAGE.
WTHOAV - PROCESS A HOST AVAILABLE MESSAGE FROM THE

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CENTRAL NODE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MMSGHT
PURPOSE: HANDLE HOST TERMINATED MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGHT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MESGLA
PURPOSE: PROCESS A LINK ACTIVE MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGLA
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SLDONE - PROCESS START LINK STATUS RETURN MESSAGES.
STLNKS - START LINK SUCCESSFUL PROCESSING.

CALLED DIRECTLY BY:

PRCMMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGLF
PURPOSE: HANDLE A LINK FAILED MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGLF
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SLDONE - PROCESS START LINK STATUS RETURN MESSAGES.
LSDONE - PROCESS THE COMPLETION OF THE SHUTDOWN LINK
COMMAND.
SNDCON - SEND TO A TERMINAL.
SNHOSD - SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE
TO A LOCAL MPU.

CALLED DIRECTLY BY:

PRCMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MMSGLO
PURPOSE: HANDLE LOGON MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGLO
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LOGON-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
SNDARG - ARGUMENTS TO CALL SENDMG
IPCARG - IPC ARGUMENTS
TBLLOG - LOGON TABLE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

LOGTBL - TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
SNDCON - SEND TO A TERMINAL.
SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

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CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

NTM/MONITOR Module Documentation

NAME: MESGLV
PURPOSE: HANDLE APC ALIVE MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGLV
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGMQ
PURPOSE: HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGMQ
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGMT
PURPOSE: HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT
EXPIRED MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGMT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MESGNL
PURPOSE: HANDLE AN AP INITIALIZE AT SHUTDOWN
MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGNL
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MMSGNP
PURPOSE: PROCESS AP NOT FOUND MESSAGE FROM AN APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGNP
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITE - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTH/MONITOR Module Documentation

NAME: MESGOF
PURPOSE: HANDLE LOGOFF MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGOF
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTH
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTHMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK - RECD
MESSAGE-BUFFER - DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK - DSPLY [X(2052)]
LOGON-TABLE - RECD
RET-STATUS - DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - INCLUDE FILE
IPCARG - IPC ARGUMENTS
TELLOG - LOGON TABLE
NTRCHN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
NTRNSF - MESSAGE BUFFER

ROUTINES CALLED:

LOGTEL - TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
SENDON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MMSGPE
PURPOSE: HANDLE MPU PROCESSING ERROR MESSAGE FROM
AN APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGPE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGRE
PURPOSE: HANDLE A RECOVERABLE ERROR MESSAGE FROM
AN MPU.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGRE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTHMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCHN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCOM - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGRU
PURPOSE: HANDLE RESOURCE UNAVAILABLE MESSAGES FROM
AN MPU.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGRU
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTHMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MMSGSE
PURPOSE: DISPLAY SIGERR MESSAGES AT OP CONSOLE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGSE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCMG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGSH
PURPOSE: HANDLE A SHUTDOWN HOST MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGSH
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCHN - MONITOR COMMON BLOCK
EVELKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE A HOST GLOBAL
TABLE
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONTR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

NTM/MONITOR Module Documentation

NAME: MESGTE
PURPOSE: PROCESS TIMEOUT EXPIRED MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGTE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLNST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
NSTLWK - HOST LINK TABLE
WTRNSF - MESSAGE BUFFER

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ROUTINES CALLED:

SNTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SCDONE - COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SLDONE - PROCESS START LINK STATUS RETURN MESSAGES.
LSDONE - PROCESS THE COMPLETION OF THE SHUTDOWN LINK
COMMAND.
DADONE - COMPLETE DISPLAY ACTIVE AP'S PROCESSING.
SNDON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MESGUA
PURPOSE: PROCESS APC TABLE UPDATE MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGUA
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK - RECRD
MESSAGE-BUFFER - DSPLY [X(2000)]
AP-CLUSTER-STATUS-TABLE - RECRD
RET-STATUS - DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
TELAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
MTRCMN - MONITOR COMMON BLOCK
MTRMBF - MESSAGE BUFFER

CALLED DIRECTLY BY:

PRCMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MMSGUH
PURPOSE: PROCESS HOST STATUS TABLE UPDATE MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGUH
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
HOST-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
TBLHST - HOST STATUS TABLE
MTRCHN - MONITOR COMMON BLOCK
MTRMBF - MESSAGE BUFFER

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: MMSGUT
PURPOSE: HANDLE UNSTABLE TABLE ERROR MESSAGE FROM
AN APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MMSGUT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

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MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MESGXU
PURPOSE: HANDLE GETUSER MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MESGXU
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
NEX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LOGON-TABLE = RECRD
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(8)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - INCLUDE FILE
SNDARG - ARGUMENTS TO CALL SENDMG
IPCARG - IPC ARGUMENTS
TELLOG - LOGON TABLE
NTRCMN - MONITOR COMMON BLOCK
EVELKS - IPC EVENT BLOCKS
NTRMBF - MESSAGE BUFFER
TELAPC - THIS IS THE APC STATUS TABLE... A HOST GLOBAL
TABLE.
HSTLNK - HOST LINK TABLE

ROUTINES CALLED:

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LOGTEL - TABLE MANAGEMENT FUNCTIONS FOR THE LOGON TABLE.
ENDMSG
SENDMSG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
 COMPONENT.

CALLED DIRECTLY BY:

PRMSG - PROCESS MESSAGE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: MONITR
PURPOSE: MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: PROGRAM
SOURCE FILE: MONITR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

INCLUDE FILES:

TBLHST	- HOST STATUS TABLE
TBLAPC	- THIS IS THE APC STATUS TABLE.... A HOST GLOBAL TABLE.
TBLST	- LINK STATUS TABLE
TBLLOG	- LOGON TABLE
TBLCAT	- MESSAGE CATEGORY TABLE
TBLDIR	- THE DIRECTORY TABLE IS A HOST GLOBAL TABLE.
LOGSEL	- STRUCTURE FOR SELECTIVE LOGGING INFORMATION.. KEPT IN GLOBAL.
MTRCMN	- MONITOR COMMON BLOCK
HSTLNK	- HOST LINK TABLE
CHKSTS	- CHECK STATUS
MTRMBF	- MESSAGE BUFFER
MONLOG	- LOGTASK MSG
IPCARG	- IPC ARGUMENTS
EVBLKS	- IPC EVENT BLOCKS
ERRPRO	- PROCESS ERROR INCLUDE FILE

ROUTINES CALLED:

GETTRM	- GET THE TERMINAL ID OF THE IISS SYSTEM CONSOLE.
INICON	- INITIALIZE THE CONSOLE TERMINAL INTERFACE.
CGSHST	- CREATE AND MAP MONITOR GLOBAL TABLES.
INTNTR	- INITIALIZE THE MONITOR WORKSTATION.

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STRUP	- HANDLE IISS START UP PROCESSING.
INITAE	- INITIALIZE ASYNCHRONOUS EVENTS.
MTRSYS	- CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
SDMNTR	- UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
SNDMSG	
RELEVB	
ENDRUN	
ERRPRO	

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NTM/MONITOR Module Documentation

NAME: MTRGEN
PURPOSE: PURPOSE NOT KNOWN - ACTIVE CODE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: PROGRAM
SOURCE FILE: MTRGEN
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

INCLUDE FILES:

BASYSG - MONITOR DEFAULT SYSGEN DATA

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NTM/MONITOR Module Documentation

NAME: MTRSYS
PURPOSE: CONTINUALLY MONITOR THE IISS SYSTEM WHILE
IT IS ACTIVE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: MTRSYS
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK - RECRD
LOG-SELECT-STR - RECRD
MESSAGE-BUFFER - DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK - DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK - DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK - DSPLY [X(2032)]
TIMER-EVENT-BLOCK - DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE - RECRD
HOST-STATUS-TABLE - RECRD
LINK-STATUS-TABLE - RECRD
LOGON-TABLE - RECRD
HOST-LINK-TABLE - RECRD
RET-STATUS - DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
CHKMSG - INCLUDE FILE
MTRCHN - MONITOR COMMON BLOCK
LOGSEL - STRUCTURE FOR SELECTIVE LOGGING INFORMATION...
KEPT IN GLOBAL.
EVLKLS - IPC EVENT BLOCKS
TELAPC - THIS IS THE APC STATUS TABLE... A HOST GLOBAL
TABLE

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TELNST	- HOST STATUS TABLE
TELLST	- LINK STATUS TABLE
TELLOG	- LOGON TABLE
HSTLNK	- HOST LINK TABLE
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

DSPERR	- DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
WAITOS	
PRCHSG	- PROCESS MESSAGE.
RCVMSG	
READCN	- INITIALIZE A CONSOLE READ.
GETMSG	
MBXLOG	
SNDCON	- SEND TO A TERMINAL.
PRCTMR	- HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
GETCON	- GET A MESSAGE RECEIVED FROM A TERMINAL.
PRCCON	- PROCESS CONSOLE INPUT.
GETDST	- DETERMINE DEST OF THE ORIG MSG WHOSE RESPONSE HAS TIMED OUT.

CALLED DIRECTLY BY:

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

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NTM/MONITOR Module Documentation

NAME: PRCCOM
PURPOSE: PROCESS CONSOLE INPUT.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: PRCCOM
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
LOG-SELECT-STR = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
LOGSEL - STRUCTURE FOR SELECTIVE LOGGING INFORMATION
KEPT IN GLOBAL
EVBLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE A MOST
TABLE
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE

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INTEGRATED INFORMATION SUPPORT SYSTEM (IISS) VOLUME 6
NETWORK TRANSACTION. (U) GENERAL ELECTRIC CO
SCHENECTADY NY PRODUCTION RESOURCES CONSU.

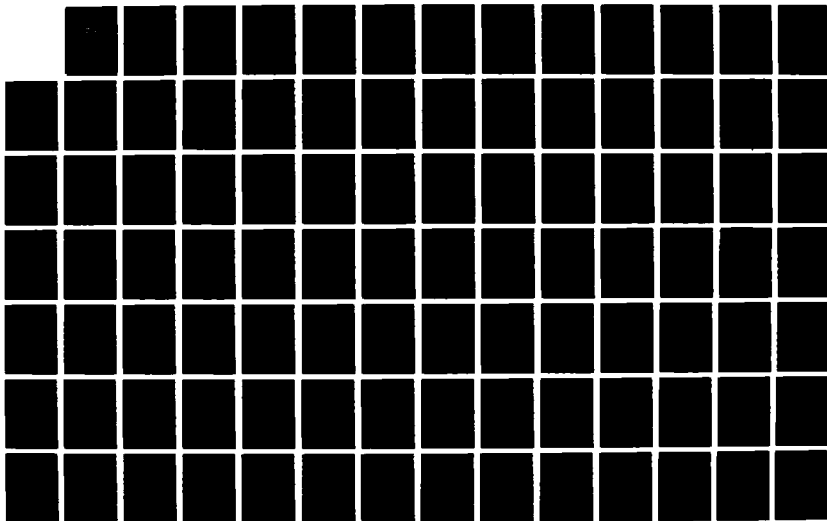
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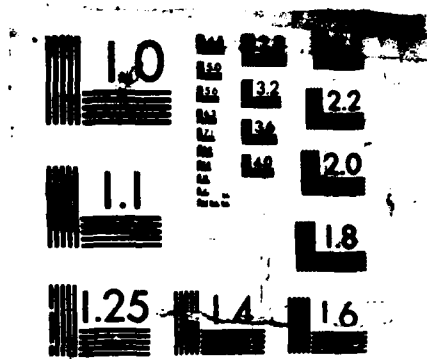
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MICROCOPY RESOLUTION TEST CHART

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TBLLOG - LOGON TABLE
MTRMBF - MESSAGE BUFFER
HSTLNK - HOST LINK TABLE

ROUTINES CALLED:

SNDGOM - SEND TO A TERMINAL.
IOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

CALLED DIRECTLY BY:

MTRSYS - CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS
 ACTIVE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: PRCMSG
PURPOSE: PROCESS MESSAGE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: PRCMSG
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE

MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

MESGSH	- HANDLE A SHUTDOWN HOST MESSAGE.
MESGSE	- DISPLAY SIGERR MESSAGES AT OP CONSOLE.
MESGLV	- HANDLE APC ALIVE MESSAGE.
MESGCT	- HANDLE APC TERMINATED MESSAGES.
MESGCE	- PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGHT	- HANDLE HOST TERMINATED MESSAGES.
MESGUA	- PROCESS APC TABLE UPDATE MESSAGES.
MESGUH	- PROCESS HOST STATUS TABLE UPDATE MESSAGES.
MESGHA	- PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM REMOTE MONITOR AP
MESGAA	- HANDLE ACTIVE AP LIST MESSAGES.
MESGLA	- PROCESS A LINK ACTIVE MESSAGE.
MESGLF	- HANDLE A LINK FAILED MESSAGE.
MESGTE	- PROCESS TIMEOUT EXPIRED MESSAGES.
MESGLO	- HANDLE LOGON MESSAGES.
MESGOF	- HANDLE LOGOFF MESSAGES.
MESGCR	- HANDLE CHANGE ROLE MESSAGES.
MESGXU	- HANDLE GETUSR MESSAGES.
MESGMT	- HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
MESGNP	- PROCESS AP NOT FOUND MESSAGE FROM AN APC.
MESGPE	- HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.
MESGUT	- HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
MESGMQ	- HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
MESGAM	- HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
MESGNL	- HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
MESGAI	- PROCESS AP INTERFACE ERROR MESSAGES.
MESGRE	- HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
MESGRU	- HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
SNDCON	- SEND TO A TERMINAL.

CALLED DIRECTLY BY:

MTRSYS	- CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
PRCSSR	- PROCESS APC START UP STATUS RETURN AT IISS START UP.
PRCTSR	- PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.

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PRSLKR - PROCESS START LINK STATUS RETURN MESSAGES AT
 IISS START UP.
SDMNTR - UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR
 APC.
WTHOAV - PROCESS A HOST AVAILABLE MESSAGE FROM THE
 CENTRAL NODE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: PRCSSR
PURPOSE: PROCESS APC START UP STATUS RETURN AT
IISS START UP.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: PRCSSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

INIT-APC-NAME = DSPLY [XXX]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE

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TELLST	- LINK STATUS TABLE
TELLOG	- LOGON TABLE
HSTLNK	- HOST LINK TABLE
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

RCVMSG
SETTIM
WAITO2
CNLTIM
PRCMSG - PROCESS MESSAGE.
GETMSG

CALLED DIRECTLY BY:

INITAC - INITIATE AN APC.
INTMTR - INITIALIZE THE MONITOR WORKSTATION.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: PRCTMR
PURPOSE: HANDLE A TIMER EVENT DURING NORMAL SYSTEM
PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: PRCTMR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

MTRSYS - CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS
ACTIVE.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: PRCTSR
PURPOSE: PROCESS APC TABLE STATUS REQUESTS AT IISS
START UP.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: PRCTSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

INIT-APC-NAME = DSPLY [XXX]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE

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TBLIST	- LINK STATUS TABLE
TBLLOG	- LOGON TABLE
HSTLNK	- HOST LINK TABLE
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

RCVMSG	
SETTIM	
WAITO2	
CNLTIM	
SENDMG	- FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
PRCMSG	- PROCESS MESSAGE.
GETMSG	

CALLED DIRECTLY BY:

INITAC	- INITIATE AN APC.
INTMTR	- INITIALIZE THE MONITOR WORKSTATION.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

NTM/MONITOR Module Documentation

NAME: PRSLKR
PURPOSE: PROCESS START LINK STATUS RETURN MESSAGES
AT IISS START UP.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: PRSLKR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

START-LINK-COUNT = DSPLY [9]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE

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HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

WTMSG - GET A MESSAGE FROM THE INPUT MAILBOX.
PRMSG - PROCESS MESSAGE.
STLNKF - START COMM LINK FAILED PROCESSING.
STLNKS - START LINK SUCCESSFUL PROCESSING.

CALLED DIRECTLY BY:

LKTOCN - ESTABLISH THE COMM LINK TO THE CENTRAL NODE
 (VAX) IN THE IISS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: RCVCON
PURPOSE: RECEIVE FROM A TERMINAL.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: RCVCON
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

CONSOLE-EVENT-BLOCK = RECRD
EVENT-NUMBER = DSPLY [99]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

ERRSTS - ERRSTS.INC -- IISS ERROR CODES
CHKSTS - CHECK STATUS
CONEVB - CONSOLE EVENT BLOCK DESCRIPTION
ERRPRO - PROCESS ERROR INCLUDE FILE

ROUTINES CALLED:

LIB\$GET_EF
HEXSTS - CONVERT INTEGER VAX STATUS TO HEXIDECIMAL.
SYS\$QIO
ERRPRO

CALLED DIRECTLY BY:

READCN - INITIALIZE A CONSOLE READ.

USED IN MAIN PROGRAM(S):

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GTINST - PURPOSE NOT KNOWN - ACTIVE CODE.
MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: READCN
PURPOSE: INITIALIZE A CONSOLE READ.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: READCN
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
RCVCON - RECEIVE FROM A TERMINAL.

CALLED DIRECTLY BY:

GTINST - PURPOSE NOT KNOWN - ACTIVE CODE.
INITAE - INITIALIZE ASYNCHRONOUS EVENTS.
MTRSYS - CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS
ACTIVE.

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USED IN MAIN PROGRAM(S):

GTINST - PURPOSE NOT KNOWN - ACTIVE CODE.
MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: RQACSD
PURPOSE: REQUEST THE SHUTDOWN OF AN APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: RQACSD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

SHUTDOWN-APC-NAME = DSPLY [X(3)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
AP-CLUSTER-STATUS-TABLE = RECRD
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

SNDARG - ARGUMENTS TO CALL SENDMG
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
MTRMBF - MESSAGE BUFFER
EVBLKS - IPC EVENT BLOCKS

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

CALLED DIRECTLY BY:

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SDALCP - REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON
 THE HOST.
SDALNC - REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE
 SYSTEM.
SDNAPC - SHUTDOWN AN APC PER OPERATOR REQUEST.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: RQRHSD
PURPOSE: REQUEST THE SHUTDOWN OF A REMOTE HOST.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: RQRHSD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

SHUTDOWN-HOST-NAME = DSPLY [X(3)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

SNDARG - ARGUMENTS TO CALL SENDMG
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
HSTLNK - HOST LINK TABLE
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

CALLED DIRECTLY BY:

SDALRH - REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: RQSTLK
PURPOSE: DURING START UP REQUEST INITIATION OF ALL
LOCAL COMM LINKS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: RQSTLK
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

START-LINK-COUNT = DSPLY [9]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
 COMPONENT.
STLNKF - START COMM LINK FAILED PROCESSING.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: SCDONE
PURPOSE: COMPLETE SHUTDOWN APC COMMAND PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SCDONE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
IPCARG - IPC ARGUMENTS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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1 November 1985

SNACUP - SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

MESGCE - PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGTE - PROCESS TIMEOUT EXPIRED MESSAGES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: SDALCP
PURPOSE: REQUEST THE SHUTDOWN OF ALL COMPONENT
APC'S ON THE HOST.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDALCP
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

RQACSD - REQUEST THE SHUTDOWN OF AN APC.
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

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SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: SDALNC
PURPOSE: REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS
ON THE SYSTEM.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDALNC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKAPC - CHECK APC TYPE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

RQACSD - REQUEST THE SHUTDOWN OF AN APC.
SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

SDRHNC - REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND
 THIER APC'S.
SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: SDALRH
PURPOSE: REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDALRH
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS	- CHECK STATUS
IPCARG	- IPC ARGUMENTS
MTRCMN	- MONITOR COMMON BLOCK
TBLHST	- HOST STATUS TABLE
HSTLNK	- HOST LINK TABLE
EVELKS	- IPC EVENT BLOCKS
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

RQRHSD	- REQUEST THE SHUTDOWN OF A REMOTE HOST.
SNDCON	- SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PS 620142100
1 November 1985

SDRHNC - REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND
 THIER APC'S.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SDCNCL
PURPOSE: CANCEL SHUTDOWN PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDCNCL
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.
CNLTIM
SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

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1 November 1985

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: SDLINK
PURPOSE: START A COMM LINK PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDLINK
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRGMN - MONITOR COMMON BLOCK
TBLLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.
SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

XLSCMD - SHUTDOWN A COMM LINK PER OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: SDMNTR
PURPOSE: UPON COMPLETION SHUTDOWN - SHUTDOWN THE
MONITOR APC.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDMNTR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
MESSAGE-CATEGORY-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE

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TBLIST	- LINK STATUS TABLE
TBLLOG	- LOGON TABLE
TBLCAT	- MESSAGE CATEGORY TABLE
HSTLTK	- HOST LINK TABLE
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

SENDMG	- FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
SNDCON	- SEND TO A TERMINAL.
DELMBX	
CNLCON	- CANCEL AN OUTSTANDING TERMINAL RECEIVE REQUEST.
SETTIM	
RCVMSG	
WAITO2	
CNLTIM	
GETMSG	
PRCMSG	- PROCESS MESSAGE.

CALLED DIRECTLY BY:

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

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NTM/MONITOR Module Documentation

NAME: SDNAPC
PURPOSE: SHUTDOWN AN APC PER OPERATOR REQUEST.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDNAPC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS	- CHECK STATUS
CHKAPC	- CHECK APC TYPE
IPCARG	- IPC ARGUMENTS
SNDARG	- ARGUMENTS TO CALL SENDMG
MTRCMN	- MONITOR COMMON BLOCK
TBLAPC	- THIS IS THE APC STATUS TABLE.... A HOST GLOBAL TABLE.
TBLHST	- HOST STATUS TABLE
HSTLNK	- HOST LINK TABLE
EVBLKS	- IPC EVENT BLOCKS
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

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1 November 1985

SNDCON - SEND TO A TERMINAL.
RQACSD - REQUEST THE SHUTDOWN OF AN APC.
SNACUP - SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.

CALLED DIRECTLY BY:

XSGCMD - SHUTDOWN AN APC PER OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SDRHNC
PURPOSE: REQUEST THE SHUTDOWN OF ACTIVE REMOTE
HOSTS AND THIER APC'S
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDRHNC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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1 November 1985

SNDCON - SEND TO A TERMINAL.
SDALRH - REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
SDALNC - REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE
 SYSTEM.

CALLED DIRECTLY BY:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SDSTAT
PURPOSE: PROCESSES ALL SHUTDOWN STATUS RETURNS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SDSTAT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKLS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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HOSDSR - PROCESSES HOST TERMINATING MESSAGES DURING
SHUTDOWN.
ACSDSR - HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
LFSDSR - HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
TESDSR - HANDLE A TIMEOUT EXPIRED MESSAGE DURING
SHUTDOWN PROCESSING.

CALLED DIRECTLY BY:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: SENDMG
PURPOSE: FORMAT AND SEND A MESSAGE TO ANOTHER IISS COMPONENT.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SENDMG
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
SND-MSG-DEST = DSPLY [X(12)]
SND-DEST-APC = DSPLY [X(3)]
SND-MSG-TYPE = DSPLY [XX]
SND-MSG-CAT = DSPLY [X]
SND-MSG-DATA = DSPLY [X(200)]
SND-DATA-LEN = DSPLY [X(4)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
FMTHDR - HEADER FORMAT DATA STRUCTURE
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
SNDARG - ARGUMENTS TO CALL SENDMG
EVBLS - IPC EVENT BLOCKS

ROUTINES CALLED:

GETCHL - GET THE THE CHANNEL ID FOR A MESSAGE TO BE SENT.
SNDMSG

CALLED DIRECTLY BY:

DSPACT	- SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
INITAC	- INITIATE AN APC.
INTMTR	- INITIALIZE THE MONITOR WORKSTATION.
LFSDSR	- HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
LKTOCN	- ESTABLISH THE COMM LINK TO THE CENTRAL NODE (VAX) IN THE IISS.
MESGLO	- HANDLE LOGON MESSAGES.
MESGXU	- HANDLE GETUSR MESSAGES.
PRCTSR	- PROCESS APC TABLE STATUS REQUESTS AT IISS START UP.
RQACSD	- REQUEST THE SHUTDOWN OF AN APC.
RQRHSD	- REQUEST THE SHUTDOWN OF A REMOTE HOST.
RQSTLK	- DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.
SDCNCL	- CANCEL SHUTDOWN PER OPERATOR COMMAND.
SDLINK	- START A COMM LINK PER OPERATOR COMMAND.
SDMNTR	- UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
SNACUP	- SEND APC STATUS UPDATE MESSAGES TO REMOTE HOSTS.
SNHOAC	- SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S MPU.
SNHOAV	- SEND A HOST AVAILABLE MESSAGE TO THE REMOTE HOST'S MONITOR AP.
SNHOSD	- SEND A HOST SHUTTING DOWN NOTIFICATION MESSAGE TO A LOCAL MPU.
STLINK	- START A COMM LINK PER OPERATOR COMMAND.
STNTCM	- START LOCAL NETWORK COMMUNICATIONS AT IISS START UP.
TELUSR	- NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
TRNTCM	- SHUT DOWN LOCAL NETWORK COMMUNICATIONS.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
RQSTLK	- DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.

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NTM/MONITOR Module Documentation

NAME: SHTDWN
PURPOSE: MAIN PROCEDURE FOR SHUTDOWN PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SHTDWN
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLIST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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TELUSR - NOTIFY USERS THAT SHUTDOWN BEGINS IN
 TIME-TIL-SHUTDOWN MINUTES
SDALNC - REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE
 SYSTEM.
SDRHNC - REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND
 THIER APC'S.
SDSTAT - PROCESSES ALL SHUTDOWN STATUS RETURNS.
TRNTCM - SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
SDALCP - REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON
 THE HOST.
DSPERR - DISPLAY AN ERROR MESSAGE TO THE OPERATOR
 CONSOLE.

CALLED DIRECTLY BY:

MESGCE - PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGHT - HANDLE HOST TERMINATED MESSAGES.
MESGLF - HANDLE A LINK FAILED MESSAGE.
MESGSH - HANDLE A SHUTDOWN HOST MESSAGE.
MESGTE - PROCESS TIMEOUT EXPIRED MESSAGES.
PRCTMR - HANDLE A TIMER EVENT DURING NORMAL SYSTEM
 PROCESSING.
XSDCMD - EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: SLDONE
PURPOSE: PROCESS START LINK STATUS RETURN MESSAGES.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SLDONE
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

STLNKF - START COMM LINK FAILED PROCESSING.
STLNKS - START LINK SUCCESSFUL PROCESSING.

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CALLED DIRECTLY BY:

MESGLA - PROCESS A LINK ACTIVE MESSAGE.
MESGLF - HANDLE A LINK FAILED MESSAGE.
MESGTE - PROCESS TIMEOUT EXPIRED MESSAGES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SNACUP
PURPOSE: SEND APC STATUS UPDATE MESSAGES TO REMOTE
HOSTS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SNACUP
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

UPDATE-APC-NAME = DSPLY [XXX]
UPDATE-APC-HOST = DSPLY [X(3)]
UPDATE-APC-STATUS = DSPLY [X]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLHST - HOST STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

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CALLED DIRECTLY BY:

APCSTS - APC START UP SUCCESSFUL PROCESSING.
SCDONE - COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SDNAPC - SHUTDOWN AN APC PER OPERATOR REQUEST.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SNDCON
PURPOSE: SEND TO A TERMINAL.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SNDCON
SOURCE FILE TYPE: .COB
HOST: VAX
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

CONSOLE-EVENT-BLOCK = RECRD
SEND-BUFFER = DSPLY [X(82)]
NUMBER-OF-CHARS = DSPLY [9999]
CARRIAGE-CONTROL = DSPLY [X]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

ERRSTS - ERRSTS.INC -- IISS ERROR CODES
CONEVB - CONSOLE EVENT BLOCK DESCRIPTION

ROUTINES CALLED:

SYSSQIOW
HEXSTS - CONVERT INTEGER VAX STATUS TO HEXIDECIMAL.

CALLED DIRECTLY BY:

ACSDSR - HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
APCSTF - HANDLES THE FAIL CONDITION OF AN APC UPON IT'S
START UP.
APCSTS - APC START UP SUCCESSFUL PROCESSING.
BLDTBL - POPULATE THE NTM GLOBAL TABLES.
DADONE - COMPLETE DISPLAY ACTIVE AP'S PROCESSING.

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DSPACT	- SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.
DSPERR	- DISPLAY AN ERROR MESSAGE TO THE OPERATOR CONSOLE.
DSTATS	- DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
GTINST	- PURPOSE NOT KNOWN - ACTIVE CODE.
HOSDSR	- PROCESSES HOST TERMINATING MESSAGES DURING SHUTDOWN.
INITAE	- INITIALIZE ASYNCHRONOUS EVENTS.
INTMTR	- INITIALIZE THE MONITOR WORKSTATION.
LFSDSR	- HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.
LSDONE	- PROCESS THE COMPLETION OF THE SHUTDOWN LINK COMMAND.
MESGAI	- PROCESS AP INTERFACE ERROR MESSAGES.
MESGAM	- HANDLE A PARENT AP TERMINATED BEFORE IT'S CHILD AP MESSAGE.
MESGCE	- PROCESS APC SHUTDOWN COMPLETE MESSAGES.
MESGCR	- HANDLE CHANGE ROLE MESSAGES.
MESGCT	- HANDLE APC TERMINATED MESSAGES.
MESGHT	- HANDLE HOST TERMINATED MESSAGES.
MESGLF	- HANDLE A LINK FAILED MESSAGE.
MESGLO	- HANDLE LOGON MESSAGES.
MESGLV	- HANDLE APC ALIVE MESSAGE.
MESGMQ	- HANDLE A MESSAGE QUEUED FOR APC MESSAGE.
MESGMT	- HANDLE THE MESSAGE RECEIVED AFTER TIMEOUT EXPIRED MESSAGE.
MESGNL	- HANDLE AN AP INITIALIZE AT SHUTDOWN MESSAGE.
MESGNP	- PROCESS AP NOT FOUND MESSAGE FROM AN APC.
MESGOF	- HANDLE LOGOFF MESSAGES.
MESGPE	- HANDLE MPU PROCESSING ERROR MESSAGE FROM AN APC.
MESGRE	- HANDLE A RECOVERABLE ERROR MESSAGE FROM AN MPU.
MESGRU	- HANDLE RESOURCE UNAVAILABLE MESSAGES FROM AN MPU.
MESGSE	- DISPLAY SIGERR MESSAGES AT OP CONSOLE.
MESGTE	- PROCESS TIMEOUT EXPIRED MESSAGES.
MESGUT	- HANDLE UNSTABLE TABLE ERROR MESSAGE FROM AN APC.
MTRSYS	- CONTINUALLY MONITOR THE IISS SYSTEM WHILE IT IS ACTIVE.
PRCCON	- PROCESS CONSOLE INPUT.
PRCMMSG	- PROCESS MESSAGE.
PRCTMR	- HANDLE A TIMER EVENT DURING NORMAL SYSTEM PROCESSING.
READCN	- INITIALIZE A CONSOLE READ.
SCDONE	- COMPLETE SHUTDOWN APC COMMAND PROCESSING.
SDALCP	- REQUEST THE SHUTDOWN OF ALL COMPONENT APC'S ON THE HOST.
SDALNC	- REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS ON THE SYSTEM.

SDALRH	- REQUEST THE SHUTDOWN OF ALL REMOTE HOSTS.
SDCNCL	- CANCEL SHUTDOWN PER OPERATOR COMMAND.
SDLINK	- START A COMM LINK PER OPERATOR COMMAND.
SDMNTR	- UPON COMPLETION SHUTDOWN - SHUTDOWN THE MONITOR APC.
SDNAPC	- SHUTDOWN AN APC PER OPERATOR REQUEST.
SDRHNC	- REQUEST THE SHUTDOWN OF ACTIVE REMOTE HOSTS AND THIER APC'S.
STCPLT	- COMPLETE IISS START-UP PROCESSING.
STLINK	- START A COMM LINK PER OPERATOR COMMAND.
STLNKF	- START COMM LINK FAILED PROCESSING.
STLNKS	- START LINK SUCCESSFUL PROCESSING.
STRTAG	- PROCEDURE TO START AN APC PER OPERTOR COMMAND.
TELUSR	- NOTIFY USERS THAT SHUTDOWN BEGINS IN TIME-TIL-SHUTDOWN MINUTES
TESDSR	- HANDLE A TIMEOUT EXPIRED MESSAGE DURING SHUTDOWN PROCESSING.
TMTLSD	- PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN RESPONSE.
XDACMD	- HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
XLGCMD	- EXECUTE A LOG SELECT OPERATOR COMMAND.
XLSCMD	- SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
XOPCMD	- EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.
XSCCMD	- SHUTDOWN AN APC PER OPERATOR COMMAND.
XSDCMD	- EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
XSLCMD	- START A COMM LINK PER OPERATOR COMMAND.
XSTCMD	- START AN APC PER OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

GTINST	- PURPOSE NOT KNOWN - ACTIVE CODE.
MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.
RQSTLK	- DURING START UP REQUEST INITIATION OF ALL LOCAL COMM LINKS.

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NTM/MONITOR Module Documentation

NAME: SNHOAC
PURPOSE: SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL
APC'S MPU.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SNHOAC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

ACTIVE-APC-NAME = DSPLY [XXX]
MONITOR-COMMON-BLOCK = RECRD
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

CALLED DIRECTLY BY:

APCSTS - APC START UP SUCCESSFUL PROCESSING.
STCPLT - COMPLETE IISS START-UP PROCESSING.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SNHOAV
PURPOSE: SEND A HOST AVAILABLE MESSAGE TO THE
REMOTE HOST'S MONITOR
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SNHOAV
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

ACTIVE-LINK-ID = DSPLY [XX]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
EVLKS - IPC EVENT BLOCKS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

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CALLED DIRECTLY BY:

STCPLT - COMPLETE IISS START-UP PROCESSING.
STLNKS - START LINK SUCCESSFUL PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: SNHOSD
PURPOSE: SEND A HOST SHUTTING DOWN NOTIFICATION
MESSAGE TO A LOCAL M
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: SNHOSD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

ACTIVE-APC-NAME = DSPLY [XXX]
REMOTE-HOST = DSPLY [X(3)]
MONITOR-COMMON-BLOCK = RECRD
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

CALLED DIRECTLY BY:

LSDONE - PROCESS THE COMPLETION OF THE SHUTDOWN LINK
COMMAND.
MESGLF - HANDLE A LINK FAILED MESSAGE.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

NTM/MONITOR Module Documentation

NAME: STCPLT
PURPOSE: COMPLETE IISS START-UP PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STCPLT
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

IPCARG - IPC ARGUMENTS
CHKAPC - CHECK APC TYPE
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE

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MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
SNHOAV - SEND A HOST AVAILABLE MESSAGE TO THE REMOTE
HOST'S MONITOR AP.
SNHOAC - SEND A 'HOST ACTIVE' MESSAGE TO A LOCAL APC'S
MPU.

CALLED DIRECTLY BY:

STRTUP - HANDLE IISS START UP PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: STLINK
PURPOSE: START A COMM LINK PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STLINK
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.
SNDCON - SEND TO A TERMINAL.

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CALLED DIRECTLY BY:

XSLCMD - START A COMM LINK PER OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: STLNKF
PURPOSE: START COMM LINK FAILED PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STLNKF
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

FAILED-LINK-ID = DSPLY [XX]
FAIL-CODE = DSPLY [X(5)]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LINK-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TELLST - LINK STATUS TABLE
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRSLKR - PROCESS START LINK STATUS RETURN MESSAGES AT

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 IISS START UP.
RQSTLK - DURING START UP REQUEST INITIATION OF ALL LOCAL
 COMM LINKS.
SLDONE - PROCESS START LINK STATUS RETURN MESSAGES.
STNTCH - START LOCAL NETWORK COMMUNICATIONS AT IISS
 START UP.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.
RQSTLK - DURING START UP REQUEST INITIATION OF ALL LOCAL
 COMM LINKS.

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NTM/MONITOR Module Documentation

NAME: STLNKS
PURPOSE: START LINK SUCCESSFUL PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STLNKS
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

ACTIVE-LINK-ID = DSPLY [XX]
MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
HSTLNK - HOST LINK TABLE
TBLLST - LINK STATUS TABLE
EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

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SNHOAV - SEND A HOST AVAILABLE MESSAGE TO THE REMOTE
HOST'S MONITOR AP.

CALLED DIRECTLY BY:

MESGLA - PROCESS A LINK ACTIVE MESSAGE.
PRSLKR - PROCESS START LINK STATUS RETURN MESSAGES AT
IISS START UP.
SLDONE - PROCESS START LINK STATUS RETURN MESSAGES.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

NTM/MONITOR Module Documentation

NAME: STLOAC
PURPOSE: PROCEDURE TO START ALL LOCAL APC'S AT
START UP.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STLOAC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKAPC - CHECK APC TYPE
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE

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MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

INITAC - INITIATE AN APC.

CALLED DIRECTLY BY:

STRUP - HANDLE IISS START UP PROCESSING.

USED IN MAIN PROGRAM(S):

MONTR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: STNTCM
PURPOSE: START LOCAL NETWORK COMMUNICATIONS AT
IIS START UP.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STNTCM
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE

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MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
 COMPONENT.
STLNKF - START COMM LINK FAILED PROCESSING.

CALLED DIRECTLY BY:

STRTUP - HANDLE IISS START UP PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: STRTAC
PURPOSE: PROCEDURE TO START AN APC PER OPERTOR
COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STRTAC
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE

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EVBLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

INITAC - INITIATE AN APC.
SNDCON - SEND TO A TERMINAL.
RCVMSG

CALLED DIRECTLY BY:

XSTCMD - START AN APC PER OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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NTM/MONITOR Module Documentation

NAME: STRTUP
PURPOSE: HANDLE IISS START UP PROCESSING.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: STRTUP
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS	- CHECK STATUS
IPCARG	- IPC ARGUMENTS
MTRCMN	- MONITOR COMMON BLOCK
TBLAPC	- THIS IS THE APC STATUS TABLE.... A HOST GLOBAL TABLE.
TBLHST	- HOST STATUS TABLE
HSTLNK	- HOST LINK TABLE
TBLST	- LINK STATUS TABLE
TBLLOG	- LOGON TABLE
EVBLKS	- IPC EVENT BLOCKS
MTRMBF	- MESSAGE BUFFER

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ROUTINES CALLED:

STLOAC - PROCEDURE TO START ALL LOCAL APC'S AT START UP.
STNTCH - START LOCAL NETWORK COMMUNICATIONS AT IISS
 START UP.
STCPLT - COMPLETE IISS START-UP PROCESSING.
DSPERR - DISPLAY AN ERROR MESSAGE TO THE OPERATOR
 CONSOLE.
INITAC - INITIATE AN APC.
LKTOCN - ESTABLISH THE COMM LINK TO THE CENTRAL NODE
 (VAX) IN THE IISS.

CALLED DIRECTLY BY:

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: TELUSR
PURPOSE: NOTIFY USERS THAT SHUTDOWN BEGINS IN
TIME-TIL-SHUTDOWN MINU
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: TELUSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
IPCARG - IPC ARGUMENTS
EVLKS - IPC EVENT BLOCKS
MTRCMN - MONITOR COMMON BLOCK
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.
SETTIM

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CALLED DIRECTLY BY:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

**MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.**

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NTM/MONITOR Module Documentation

NAME: TESDSR
PURPOSE: HANDLE A TIMEOUT EXPIRED MESSAGE DURING
SHUTDOWN PROCESSING
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: TESDSR
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
HOST-STATUS-TABLE = RECRD
AP-CLUSTER-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKLS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SNDGON - SEND TO A TERMINAL.
HOSDSR - PROCESSES HOST TERMINATING MESSAGES DURING
 SHUTDOWN.
ACSDSR - HANDLES APC TERMINATING MESSAGES AT SHUTDOWN.
LFSDSR - HANDLE LINK FAILED STATUS RETURN AT SHUTDOWN.

CALLED DIRECTLY BY:

SDSTAT - PROCESSES ALL SHUTDOWN STATUS RETURNS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: TMTLSD
PURPOSE: PROCESS THE OPERATOR'S TIME UNTIL
SHUTDOWN RESPONSE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: TMTLSD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

XSDCMD - EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

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1 November 1985

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: TRNTCM
PURPOSE: SHUT DOWN LOCAL NETWORK COMMUNICATIONS.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: TRNTCM
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
MTRCMN - MONITOR COMMON BLOCK
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

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1 November 1985

SENDMG - FORMAT AND SEND A MESSAGE TO ANOTHER IISS
COMPONENT.

CALLED DIRECTLY BY:

SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: WTHOAV
PURPOSE: PROCESS A HOST AVAILABLE MESSAGE FROM THE
CENTRAL NODE.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: WTHOAV
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
SNDARG - ARGUMENTS TO CALL SENDMG
CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLNST - LINK STATUS TABLE

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TELLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

RCVMSG
SETTIM
WAITO2
CNLTIM
MESGHA - PROCESS HOST AVAILABLE MESSAGE RECEIVED FROM
 REMOTE MONITOR AP
PRCMSG - PROCESS MESSAGE.
GETMSG

CALLED DIRECTLY BY:

LKTOCN - ESTABLISH THE COMM LINK TO THE CENTRAL NODE
 (VAX) IN THE IISS.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: WTMSG
PURPOSE: GET A MESSAGE FROM THE INPUT MAILBOX.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: WTMSG
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKMSG - CHKMSG- INCLUDE FILE
IPCARG - IPC ARGUMENTS
CHKSTS - CHECK STATUS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

RCVMSG
WAIT01
GETMSG
GETDST - DETERMINE DEST OF THE ORIG MSG WHOSE RESPONSE
HAS TIMED OUT.

CALLED DIRECTLY BY:

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1 November 1985

PRSLKR - PROCESS START LINK STATUS RETURN MESSAGES AT
IISS START UP.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: XDACMD
PURPOSE: HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XDACMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKS - IPC EVENT BLOCKS
TE LAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
DSPACT - SEND A DISPLAY ACTIVE AP'S MESSAGE TO AN APC.

CALLED DIRECTLY BY:

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XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: XLGCMD
PURPOSE: EXECUTE A LOG SELECT OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XLGCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
LOG-SELECT-STR = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
LOGSEL - STRUCTURE FOR SELECTIVE LOGGING INFORMATION..
KEPT IN GLOBAL.
EVLKS - IPC EVENT BLOCKS
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.

CALLED DIRECTLY BY:

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

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USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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NTM/MONITOR Module Documentation

NAME: XLSCMD
PURPOSE: SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XLSCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
SDLINK - START A COMM LINK PER OPERATOR COMMAND.

CALLED DIRECTLY BY:

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XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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1 November 1985

NTM/MONITOR Module Documentation

NAME: XOPCMD
PURPOSE: EXECUTE THE CURRENT OR NEW OPERATOR
COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XOPCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
LOG-SELECT-STR = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MONLOG - LOGTASK MSG
MTRCMN - MONITOR COMMON BLOCK
LOGSEL - STRUCTURE FOR SELECTIVE LOGGING INFORMATION..
KEPT IN GLOBAL.
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.

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TBLHST	- HOST STATUS TABLE
TBLST	- LINK STATUS TABLE
TBLLOG	- LOGON TABLE
HSTLNK	- HOST LINK TABLE
MTRMBF	- MESSAGE BUFFER

ROUTINES CALLED:

XSDCMD	- EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
SDCNCL	- CANCEL SHUTDOWN PER OPERATOR COMMAND.
DSTATS	- DISPLAY THE IISS STATUS TO THE OPERATOR CONSOLE.
XDACMD	- HANDLE THE DISPLAY ACTIVE AP'S COMMAND.
XSCCMD	- SHUTDOWN AN APC PER OPERATOR COMMAND.
XSTCMD	- START AN APC PER OPERATOR COMMAND.
XLGCMD	- EXECUTE A LOG SELECT OPERATOR COMMAND.
SNDMSG	
RELEVB	
XSLCMD	- START A COMM LINK PER OPERATOR COMMAND.
XLSCMD	- SHUTDOWN A COMM LINK PER OPERATOR COMMAND.
SNDCON	- SEND TO A TERMINAL.

CALLED DIRECTLY BY:

PRCCON	- PROCESS CONSOLE INPUT.

USED IN MAIN PROGRAM(S):

MONITR	- MAIN PROCEDURE OF THE MONITOR APPLICATION PROCESS.

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NTM/MONITOR Module Documentation

NAME: XSCCMD
PURPOSE: SHUTDOWN AN APC PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XSCCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL
SDNAPC - SHUTDOWN AN APC PER OPERATOR REQUEST

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INTEGRATED INFORMATION SUPPORT SYSTEM (IIS) VOLUME 6
NETWORK TRANSACTION. (U) GENERAL ELECTRIC CO
SCHENECTADY NY PRODUCTION RESOURCES CONSU..

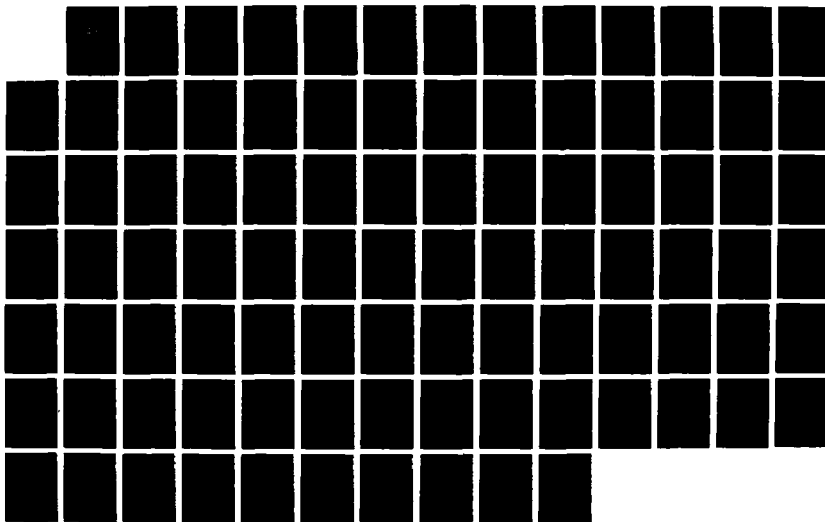
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CALLED DIRECTLY BY:

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

**MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.**

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NTM/MONITOR Module Documentation

NAME: XSDCMD
PURPOSE: EXECUTE A SHUTDOWN IISS OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XSDCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TELAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TELHST - HOST STATUS TABLE
TELLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
TMTLSD - PROCESS THE OPERATOR'S TIME UNTIL SHUTDOWN
 RESPONSE.
SHTDWN - MAIN PROCEDURE FOR SHUTDOWN PROCESSING.

CALLED DIRECTLY BY:

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: XSLCMD
PURPOSE: START A COMM LINK PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XSLCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
LINK-STATUS-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVBLKS - IPC EVENT BLOCKS
TELLST - LINK STATUS TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

ROUTINES CALLED:

SNDCON - SEND TO A TERMINAL.
STLINK - START A COMM LINK PER OPERATOR COMMAND.

CALLED DIRECTLY BY:

PS 620142100
1 November 1985

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
PROCESS.

PS 620142100
1 November 1985

NTM/MONITOR Module Documentation

NAME: XSTCMD
PURPOSE: START AN APC PER OPERATOR COMMAND.
LANGUAGE: VAX-11 COBOL
MODULE TYPE: SUBROUTINE
SOURCE FILE: XSTCMD
SOURCE FILE TYPE: .COB
HOST:
SUBSYSTEM: NTM
SUBDIRECTORY: MONITOR
DOCUMENTATION GROUP: NTMMON

DESCRIPTION:

ARGUMENTS:

MONITOR-COMMON-BLOCK = RECRD
MESSAGE-BUFFER = DSPLY [X(2000)]
MBX-RCV-EVENT-BLOCK = DSPLY [X(2032)]
MBX-SND-EVENT-BLOCK = DSPLY [X(2032)]
CONSOLE-EVENT-BLOCK = DSPLY [X(2032)]
TIMER-EVENT-BLOCK = DSPLY [X(80)]
AP-CLUSTER-STATUS-TABLE = RECRD
HOST-STATUS-TABLE = RECRD
LINK-STATUS-TABLE = RECRD
LOGON-TABLE = RECRD
HOST-LINK-TABLE = RECRD
RET-STATUS = DSPLY [X(5)]

INCLUDE FILES:

CHKSTS - CHECK STATUS
IPCARG - IPC ARGUMENTS
MTRCMN - MONITOR COMMON BLOCK
EVLKLS - IPC EVENT BLOCKS
TBLAPC - THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
TBLHST - HOST STATUS TABLE
TBLST - LINK STATUS TABLE
TBLLOG - LOGON TABLE
HSTLNK - HOST LINK TABLE
MTRMBF - MESSAGE BUFFER

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1 November 1985

ROUTINES CALLED:

SNDCOM - SEND TO A TERMINAL.
STRTAC - PROCEDURE TO START AN APC PER OPERTOR COMMAND.

CALLED DIRECTLY BY:

XOPCMD - EXECUTE THE CURRENT OR NEW OPERATOR COMMAND.

USED IN MAIN PROGRAM(S):

MONITR - MAIN PROCEDURE OF THE MONITOR APPLICATION
 PROCESS.

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3.10.9 Include File Descriptions

The following list contains a purpose and description of each include file listed in 3.10.4 as specified in the source code. The language it is written in is also given.

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NTM/MONITOR Include File Description

FILE NAME: CHKAPC
PURPOSE: CHECK APC TYPE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: CHKMSG
PURPOSE: VALID MSG HEADER STRUCTURE AND MSG TYPES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME

MODIFIED 08 AUG 84 INITIALIZE ALL LOCAL VARIABLES TO
SPACES OR 0, EXCEPT FOR RSTAT WHICH IS
INITIALIZED
TO "00000".

DESCRIPTION :- INCLUDE FILE CONTAINING THE DATA STRUCTURE
FOR THE MESSAGE HEADER AND VALID MESSAGE
TYPES.

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NTM/MONITOR Include File Description

FILE NAME: CHKSTS
PURPOSE: CHECK STATUS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: CONEVB
PURPOSE: CONSOLE EVENT BLOCK DESCRIPTION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: DSTNAM
PURPOSE: DESTINATION AP NAMES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 08 AUG 84 INITIALIZE ALL LOCAL VARAIBLES TO
SPACES OR 0, EXCEPT FOR RSTAT WHICH IS
INITIALIZED
TO "00000".

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: ERRPRO
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

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WTH/MONITOR Include File Description

FILE NAME: ERRSTS
PURPOSE: ERRSTS.INC -- IISS ERROR CODES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

THIS FILE CONTAINS ALL IISS ERROR CODES DEFINED IN *
COBOL FORMAT *

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: EVBLKS
PURPOSE: IPC EVENT BLOCKS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME
MODIFIED 6/26/84 TO EXPAND TIMER-EVENT-BLOCK, 8 TO 80 CHARS.

MODIFIED 23 AUG 84 INITIALIZE ALL VARIABLES TO
SPACES OR 0.

**DESCRIPTION :- INCLUDE FILE CONTAINING THE IPC EVENT BLOCKS
USED THROUGH OUT MONITOR AP**

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: FILERR
PURPOSE: THE NTM QUEUE ERROR FILE.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CREATED 1/11/84
MODIFIED 5/31/85 CLEAN-UP.

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: FMTHDR
PURPOSE: HEADER FORMAT DATA STRUCTURE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME

**DESCRIPTION :- INCLUDE FILE CONTAINING THE DATA STRUCTURE
FOR THE HEADER FORMAT USED BY MONITOR AP.**

PS 620142100
1 November 1985

WTH/MONITOR Include File Description

FILE NAME: HSTGLD
PURPOSE: HOST GLOBAL SECTION PARAMETERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 8/23/84 INITIALIZE ALL VARIABLES TO SPACES OR 0.
MODIFIED 5/25/85 CLEAN-UP.

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: HSTGLE
PURPOSE: INITIATION CODE FOR HOST GLOBAL SECTIONS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 22 MAR 84 TO INCLUDE INITIATION OF CATEGORY
DEFINITIONS.

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: HSTLWK
PURPOSE: HOST LINK TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME

MODIFIED 23 AUG 84 INITIALIZE ALL VARIABLES TO
SPACES OR 0.

**DESCRIPTION :- INCLUDE FILE CONTAINING THE DATA STRUCTURE
OF THE HOST-LINK TABLE USED BY MONITR**

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: IPCARG
PURPOSE: IPC ARGUMENTS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME *
MODIFIED 8/03/84 FOR IBM VERSION *

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: LOGDAT
PURPOSE: LOGTASK ARGUMENTS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: LOGNAM
PURPOSE: LOGTASK NAME
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: LOGSEL
PURPOSE: STRUCTURE FOR SELECTIVE LOGGING INFORMATION.. KEPT
IN GLOBAL.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MAINTAINED BY MONITOR. AND ACCESSED BY THE MPUS.

MODIFIED 3/22/84 TO ADD DEFINITION OF CATEGORY VALUES
DEFINE-CAT.

MODIFIED 8/23/84 INITIALIZE ALL VARIABLES TO SPACES OR 0.

MODIFIED 5/29/85 CLEAN-UP.

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1 November 1985

NTM/MONITOR Include File Description

FILE NAME: MONLOG
PURPOSE: LOGTASK MSG
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: RETSTR
PURPOSE: THE APIS COMMON LOCAL DATA FOR ERROR-RETURNS.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 8/20/84 INITIALIZE ALL LOCAL VARAIBLES TO SPACES
OR 0
MODIFIED 5/24/85 CLEAN-UP.

PS 620142100
1 November 1985

NTM/MONITOR Include File Description

FILE NAME: SNDARG
PURPOSE: ARGUMENTS TO CALL SENDMG
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME

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NTM/MONITOR Include File Description

FILE NAME: SYSERR
PURPOSE: SYSTEM ERROR CODE DEFINITIONS.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/09/84 TO INCLUDE ERRORS DEFINED IN RELEASE 1.1
CHANGED TO DELETE ALPHA CHARS.
MODIFIED 2/07/84 TO ADD ERROR CODES FOR ENTRY NOT-FOUND
LOGIC
MODIFIED 4/23/85 ADDED INSTANCE-UNAVAIL.
MODIFIED 5/25/85 CLEAN-UP.

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NTM/MONITOR Include File Description

FILE NAME: TBLAPC
PURPOSE: THIS IS THE APC STATUS TABLE.... A HOST GLOBAL
TABLE.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 8/23/84 INITIALIZE ALL VARAIBLES TO SPACES OR 0.
MODIFIED 5/25/85 CLEAN-UP.

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NTM/MONITOR Include File Description

FILE NAME: TELDIR
PURPOSE: THE DIRECTORY TABLE IS A HOST GLOBAL TABLE.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

WRITTEN 1/31/84 TO HANDLE THE DIRECTORY PREFIX.
MODIFIED 8/23/84 INITIALIZE ALL VARIABLES TO SPACES OR 0.
MODIFIED 3/01/85 INCLUDE DEVICE TYPE IN TABLE; REARRANGE
POSITION OF LENGTH.
MODIFIED 5/25/85 CLEAN-UP.

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NTM/MONITOR Include File Description

FILE NAME: TELGD
PURPOSE: THE GUARANTEED DELIVERY TABLE IN AN APC GLOBAL
TABLE.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME.
MODIFIED REL 1.2 FOR SERIAL NO STRUCTURE.
MODIFIED 8/23/84 INITIALIZE ALL VARIABLES TO SPACES OR 0.

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NTM/MONITOR Include File Description

FILE NAME: TBLHST
PURPOSE: HOST STATUS TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME

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NTM/MONITOR Include File Description

FILE NAME: TELLOG
PURPOSE: LOGON TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/28/84 FOR EXPANDED APNAME AND HARD-CODED *
NTM-INSTANCE ("00") *

MODIFIED 23 AUG 84 INITIALIZE ALL VARIABLES TO
SPACES OR 0.

DESCRIPTION :- MTRCOMN IS AN INCLUDE FILE WHICH CONTAINS
THE MONITOR-COMMON-BLOCK WHICH IS PASSED
FROM MODULE TO MODULE WITHIN MONITR

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NTM/MONITOR Include File Description

FILE NAME: TELLST
PURPOSE: LINK STATUS TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

MODIFIED 1/30/84 FOR EXPANDED AP NAME

**MODIFIED 23 AUG 84 INITIALIZE ALL VARIABLES TO
SPACES OR 0.**

**DESCRIPTION :- INCLUDE FILE CONTAINING THE DATA STRUCTURE
OF THE HOST-LINK TABLE USED BY MONITR**

3.10.10 Hierarchy Chart

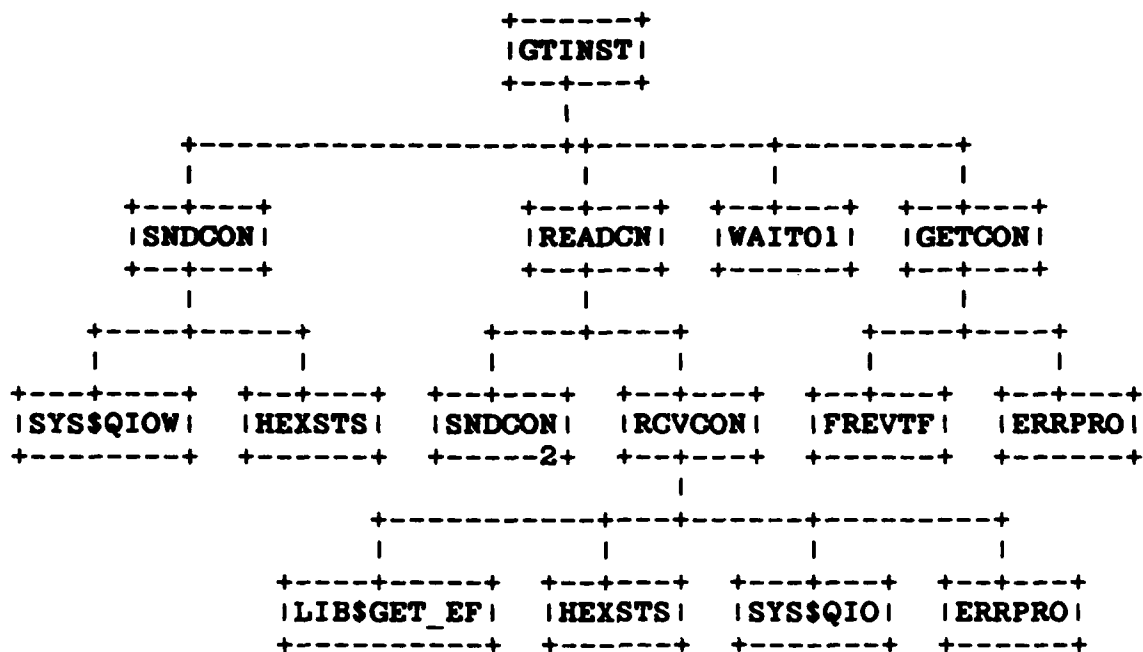
The following hierarchy charts show the relationships between all of the modules mentioned in the above documentation. A module may call a subroutine several times within its code, but the call will only be shown once as a single relationship on this hierarchy chart. All modules shown at the top of the first page are considered Main Programs as described in section 3.10.1 above.

There is an internal paging scheme as marked by the numbers in the upper right corner of each page. An index after the last page of the chart shows where a routine and its calls are first defined. If a routine has no page reference, it either makes no calls or is an external routine. A continuation box on the end of a tree limb shows where that the tree continues on the page number mentioned. A number in a box with a routine name points to the page where the routine is further defined within the hierarchy tree. If there is no number in a box, the routine either makes no calls or is an external routine.

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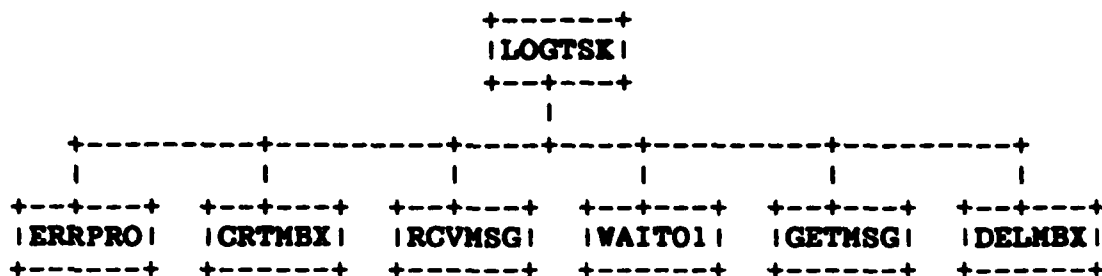
1

+-----+	+-----+	+-----+	+-----+
GTINST	LOGTSK	MONITR	RQSTLK
+-----2+	+-----3+	+-----4+	+-----+
		+-----+	+-----+
		+-----+	+-----+
		SENDMG	STLNKF
		+-----11+	+-----7+



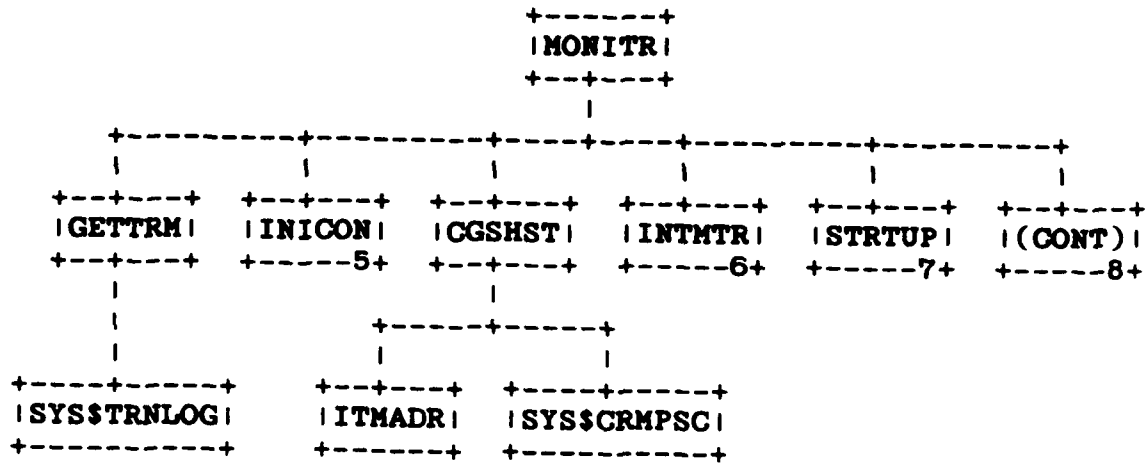
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3



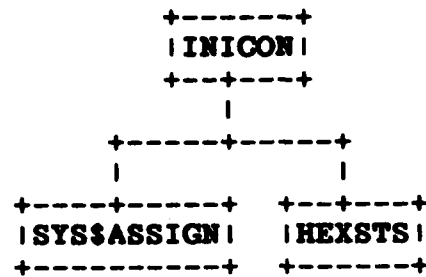
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4



PS 620142100
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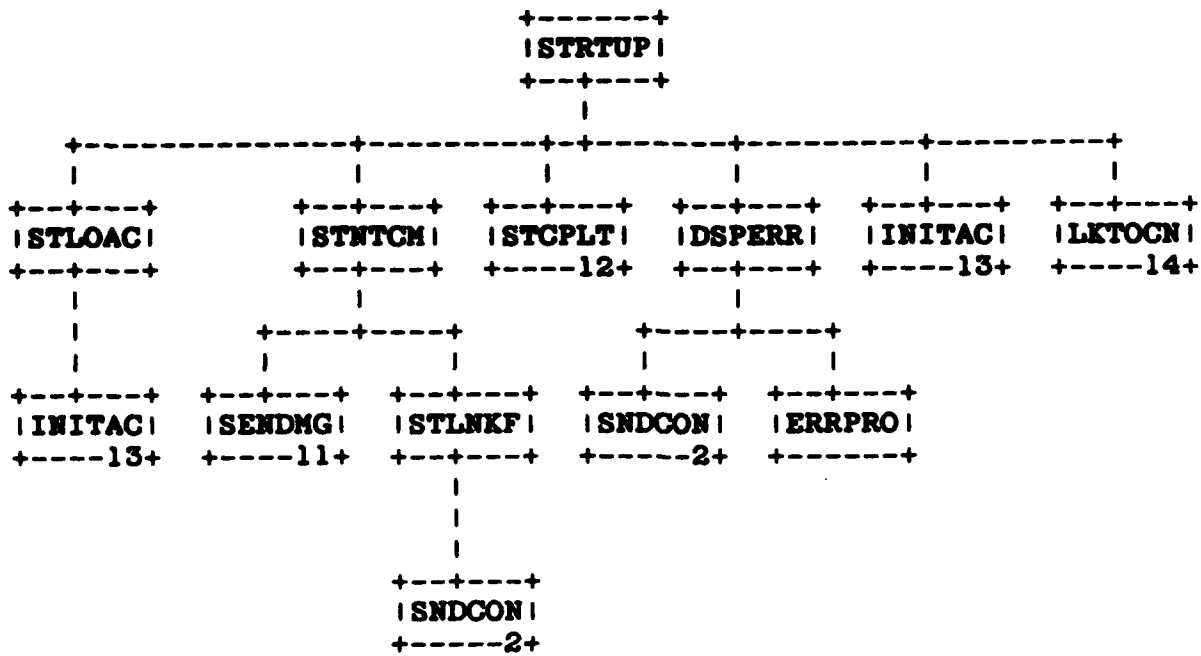
5



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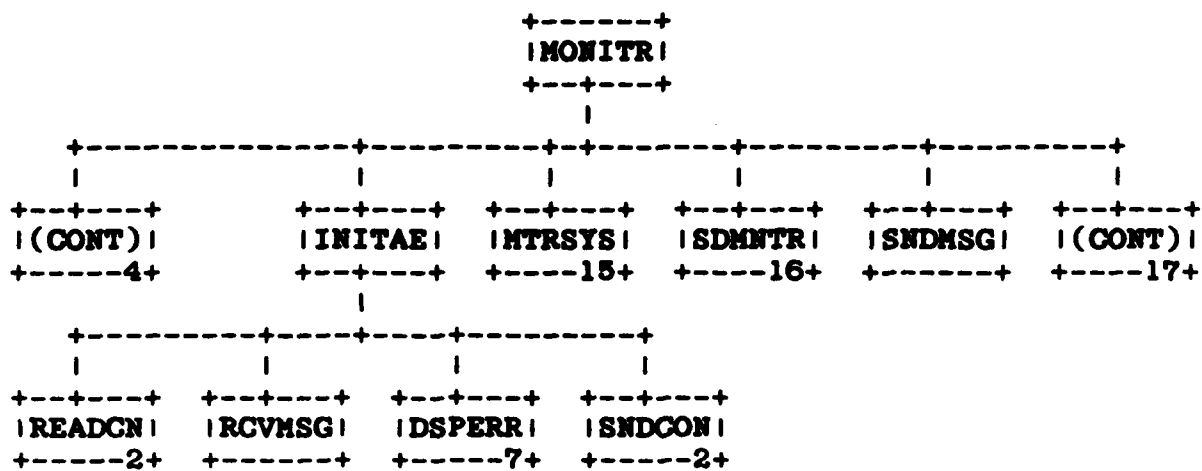
6

```
      +-----+  
      |INTMTR|  
      +-----+  
      |  
+-----+-----+-----+-----+-----+-----+  
|         |         |         |         |         |         |  
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+  
|CRTMBX| |LOGINI| |BLDTBL| |CRTPRC| |PRCTSR| |(CONT)|  
+-----+ +-----+ +-----9+ +-----+ +-----10+ +-----11+
```



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8



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9

```
      +-----+  
      |BLDTBL|  
      +-----+  
      |  
+-----+  
|         |         |         |         |         |         |  
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+  
|HSTINI| |APCINI| |LSTINI| |CATINI| |DIRINI| |SNDCON|  
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+  
                                         -2+
```

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10

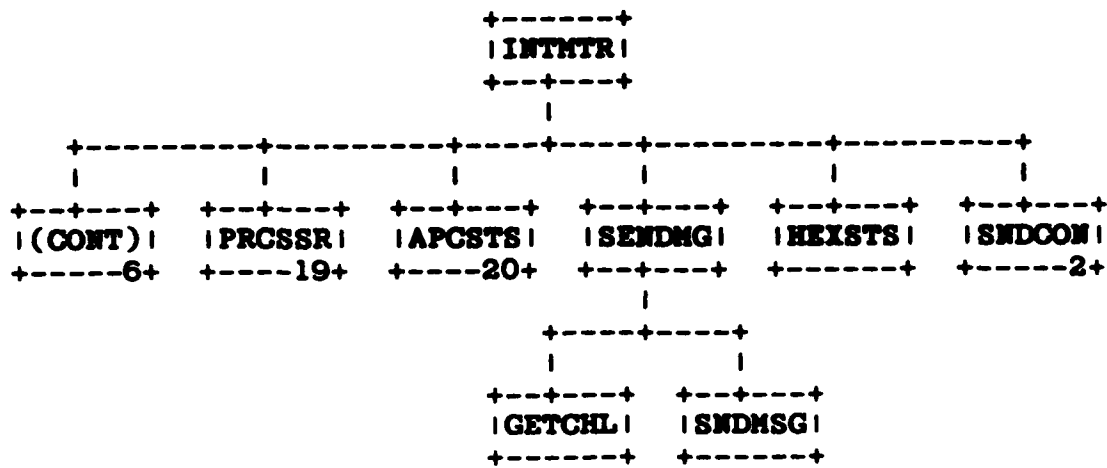
```

+-----+
| PRCTSR |
+-----+
|
+-----+-----+-----+-----+-----+-----+
|         |         |         |         |         |         |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
| RCVMSG | | SETTIM | | WAITO2 | | CNLTIM | | SENDMG | | (CONT) |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
|         | |         | |         | |         | |         | |         |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+

```

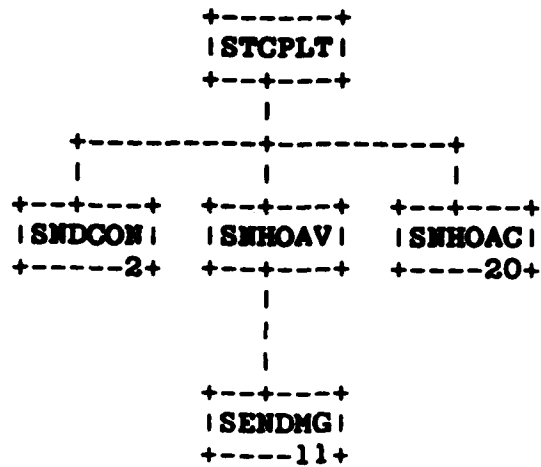
PS 620142100
1 November 1985

11



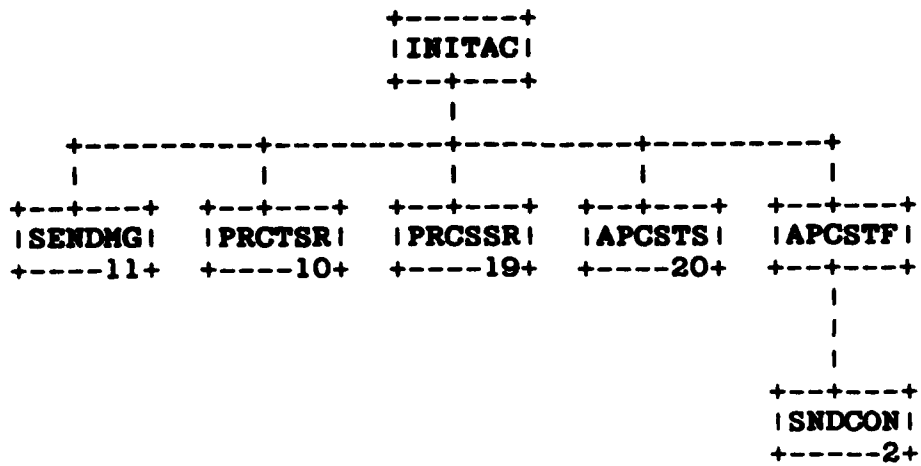
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12



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13



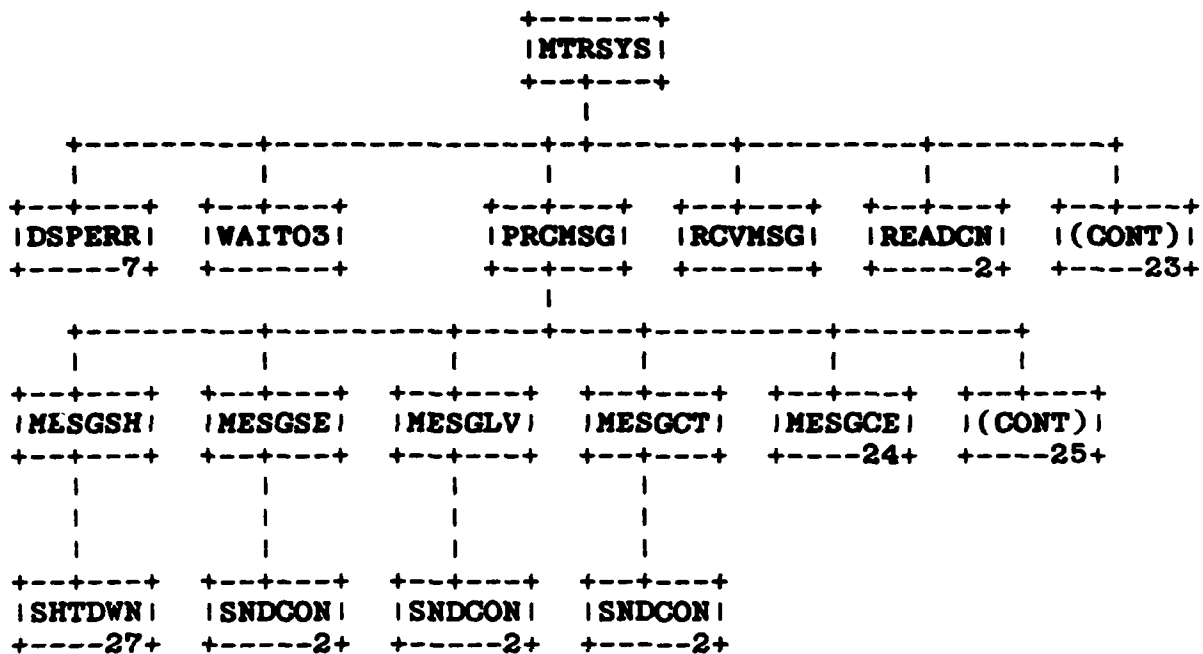
PS 620142100
1 November 1985

14

```

+-----+
| LKTOCN |
+-----+
|
+-----+-----+-----+-----+
|         |         |         |         |
+-----+ +-----+ +-----+ +-----+ +-----+
| INITAC | | PRSLKR | | WTHOAV | | DSPERR | | SENDMG |
+-----13+ +-----21+ +-----7+ +-----11+
|
+-----+-----+-----+-----+-----+
|         |         |         |         |         |
+-----+ +-----+ +-----+ +-----+ +-----+
| RCVMSG | | SETTIM | | WAITO2 | | CNLTIM | | MESGHA | | (CONT) |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----22+

```



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16

```
      +-----+
      |SDMMTR|
      +-----+
      |
+-----+-----+-----+-----+-----+-----+
|         |         |         |         |         |         |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
|SENDMG| |SNDCON| |DELMBX| |CNLCON| |SETTIM| |(CONT)|
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
|11+    | |2+    | |      | |      | |      | |26+
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
      |
      +-----+-----+-----+-----+
      |         |         |         |         |
+-----+ +-----+ +-----+ +-----+
|SYSCANCEL| |HEXSTS| |FREVT| |ERRPRO|
+-----+ +-----+ +-----+ +-----+
```


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17

```
      +-----+  
      |MONITR|  
      +-----+  
      |  
+-----+-----+-----+-----+  
|         |         |         |         |  
+-----+ +-----+ +-----+ +-----+  
|(CONT)| |RELEVB| |ENDRUN| |ERRPRO|  
+-----+ +-----+ +-----+ +-----+  
+-----8+
```

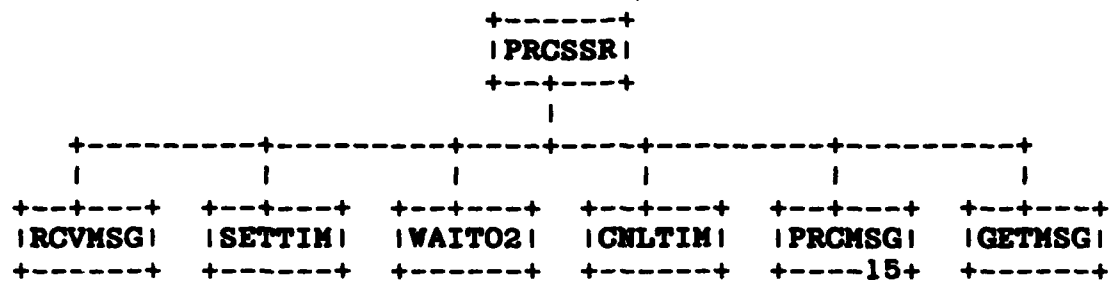
PS 620142100
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18

```
      +-----+
      | PRCTSR |
      +-----+
        |
+-----+-----+
|         |         |
+-----+ +-----+ +-----+
| (CONT) | | PRCMSG | | GETMSG |
+-----10+ +-----15+ +-----+
```

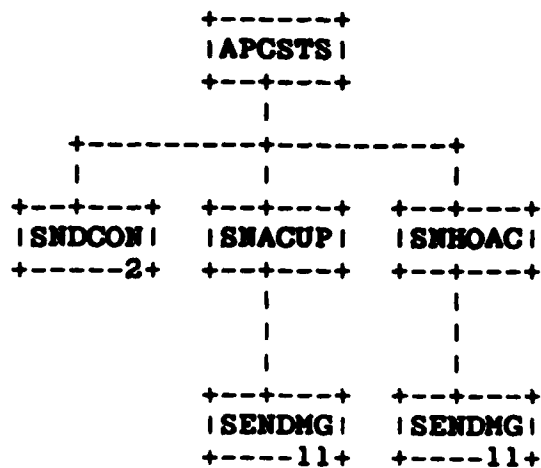
PS 620142100
1 November 1985

19



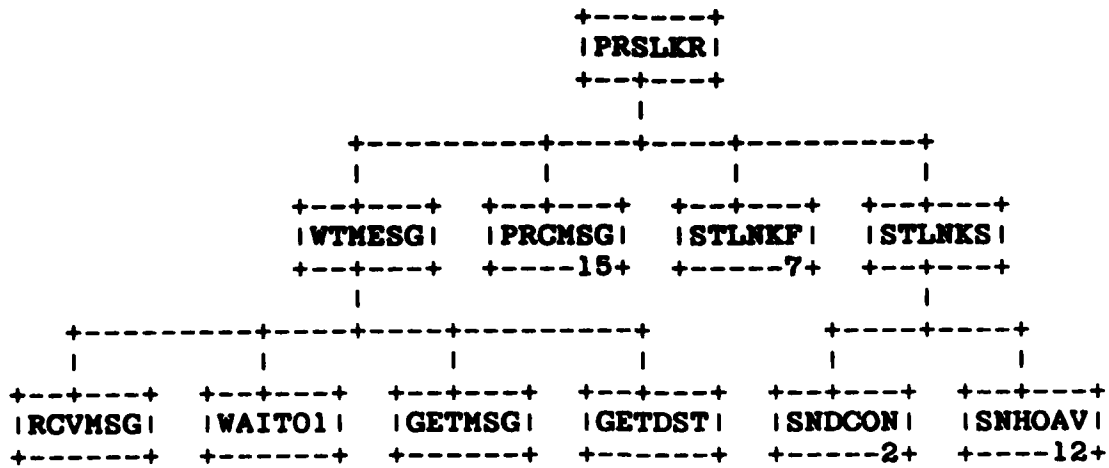
PS 620142100
1 November 1985

20



PS 620142100
1 November 1985

21



PS 620142100
1 November 1985

22

```
      +-----+  
      |WTHOAV|  
      +-----+  
      |  
+-----+-----+  
|         |         |  
+-----+ +-----+ +-----+  
|(CONT)| |PRMSG| |GETMSG|  
+-----14+ +-----15+ +-----+
```

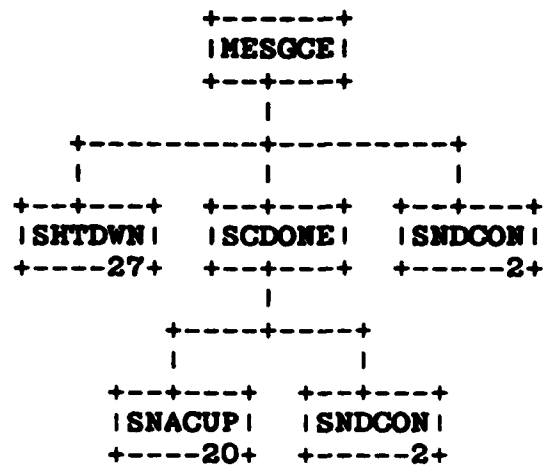
PS 620142100
1 November 1985

23

```
      +-----+  
      |MTRSYS|  
      +-----+  
      |  
+-----+-----+-----+-----+-----+  
|         |         |         |         |         |  
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+  
| (CONT) | |GETMSG| |MBXLOG| |SNDCON| |PRCTMR| | (CONT) |  
+-----15+ +-----+ +-----+ +-----2+ +-----27+ +-----28+
```

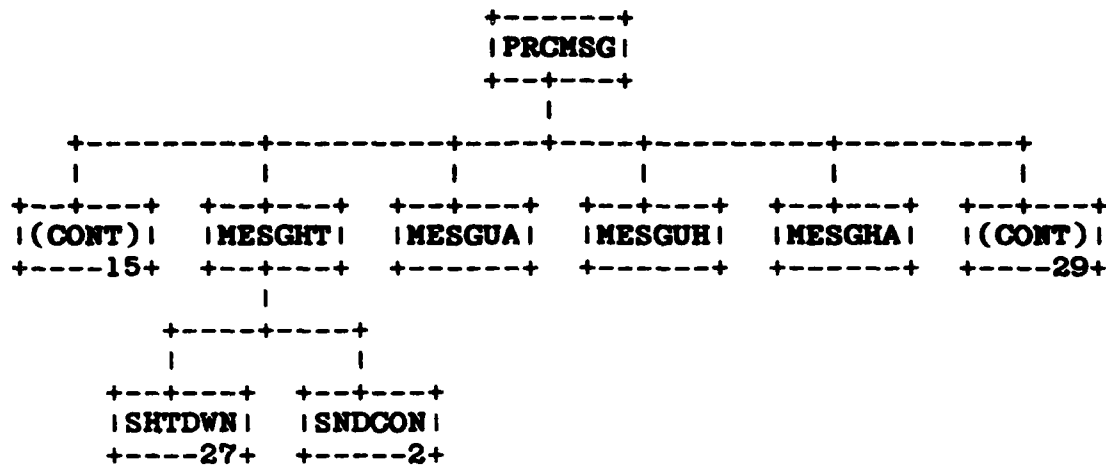
PS 620142100
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24



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25



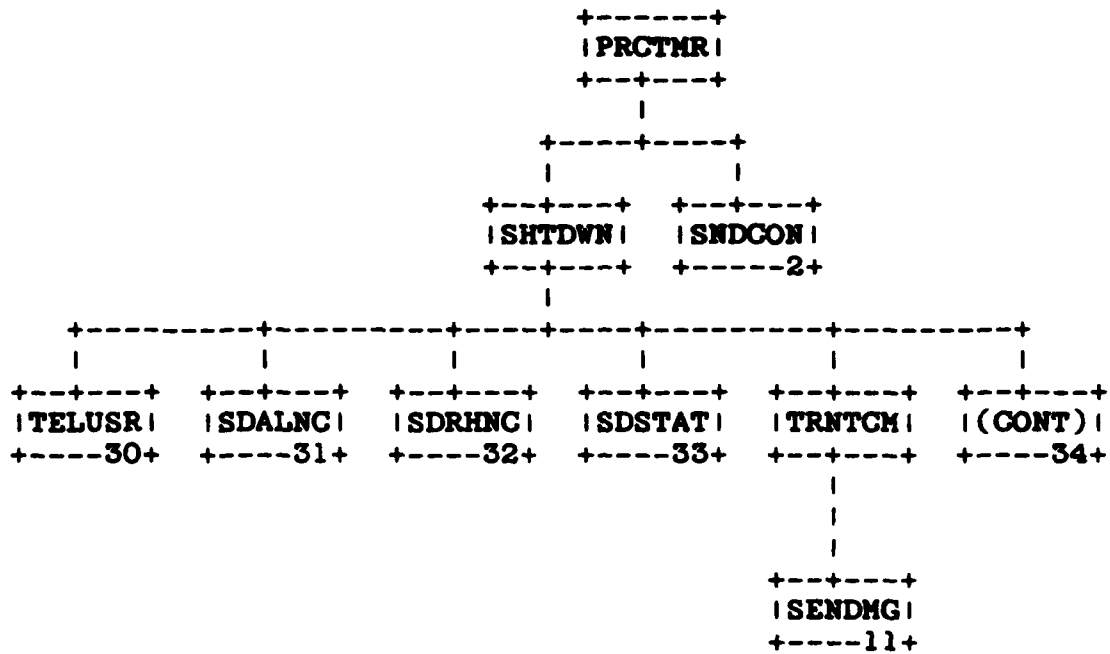
PS 620142100
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26

```
      +-----+  
      |SDMNTR|  
      +-----+  
      |  
+-----+  
|      |      |      |      |      |      |  
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+  
|(CONT)| |RCVMSG| |WAIT02| |CNLTIM| |GETMSG| |PRCMSG|  
+-----16+ +-----+ +-----+ +-----+ +-----+ +-----15+
```

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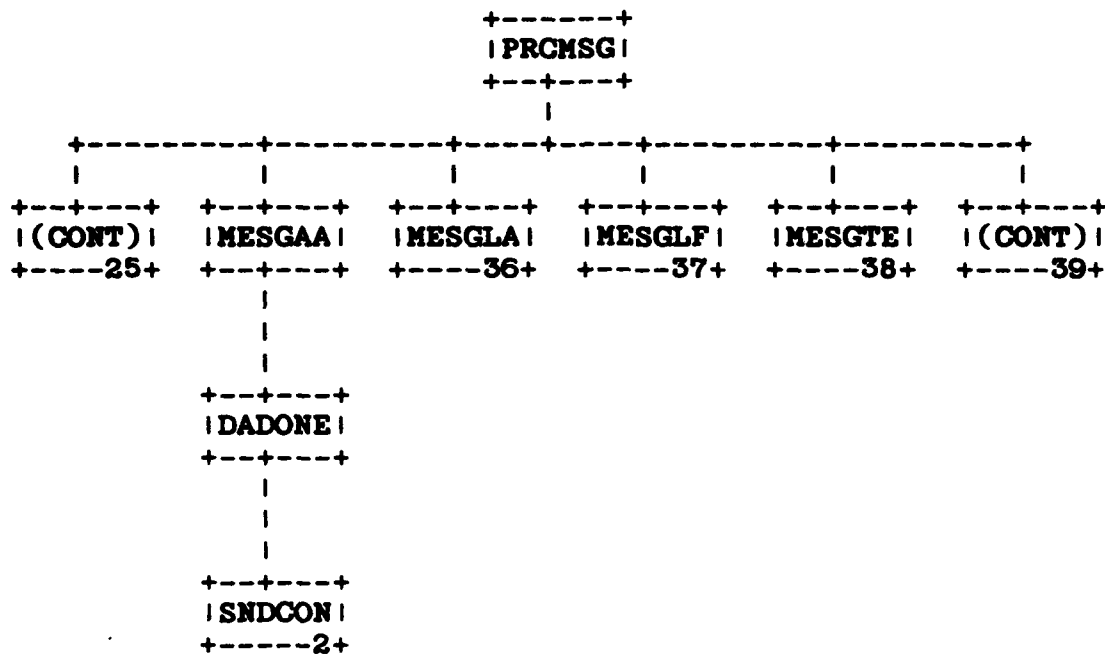
27



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28

```
      +-----+  
      |MTRSYS|  
      +-----+  
      |  
+-----+-----+-----+-----+  
|         |         |         |         |  
+-----+ +-----+ +-----+ +-----+  
| (CONT) | |GETCON| |PRCCON| |GETDST|  
+-----23+ +-----2+ +-----35+ +-----+  
|         |         |         |         |
```



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30

```
      +-----+
      | TELUSR |
      +-----+
        |
    +-----+-----+
    |           |           |
+---+---+ +---+---+ +---+---+
|SNDCON| |SENDMG| |SETTIM|
+-----2+ +-----11+ +-----+
```

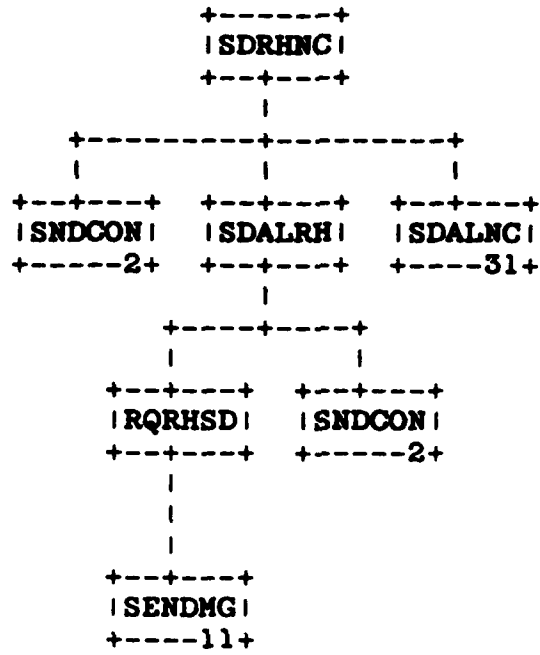
PS 620142100
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31

```
+-----+
|SDALNC|
+---+---+
|
+-----+
|
+---+---+ +---+---+
|RQACSD| |SNDGON|
+---+---+ +---+---2+
|
|
+---+---+
|SENDMG|
+---+---11+
```

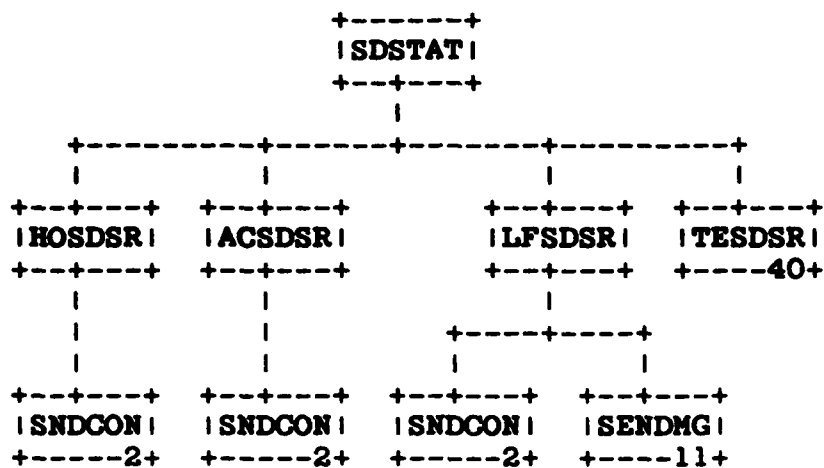
PS 620142100
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32



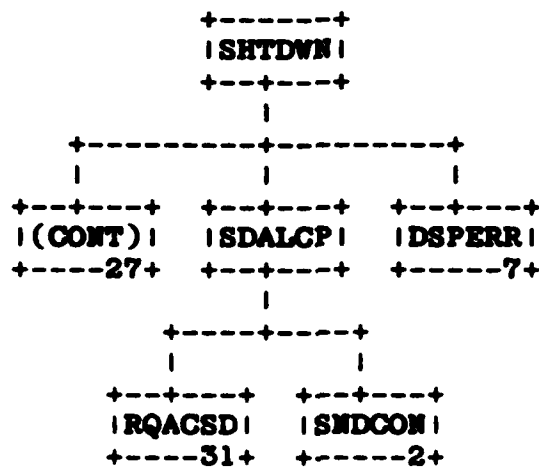
PS 620142100
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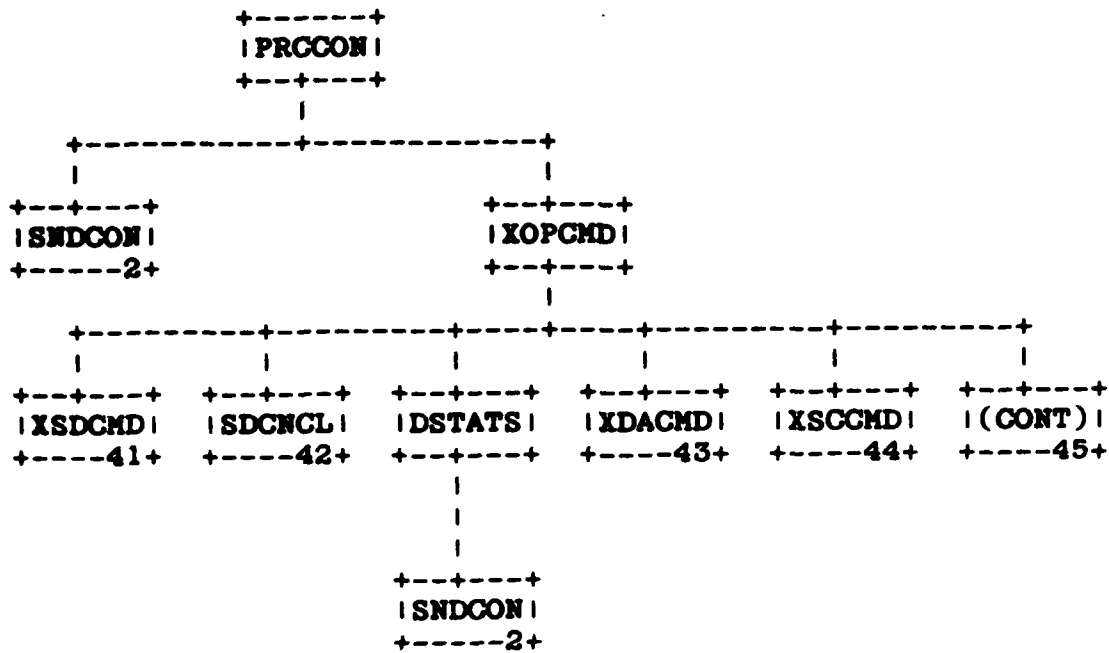
33



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34





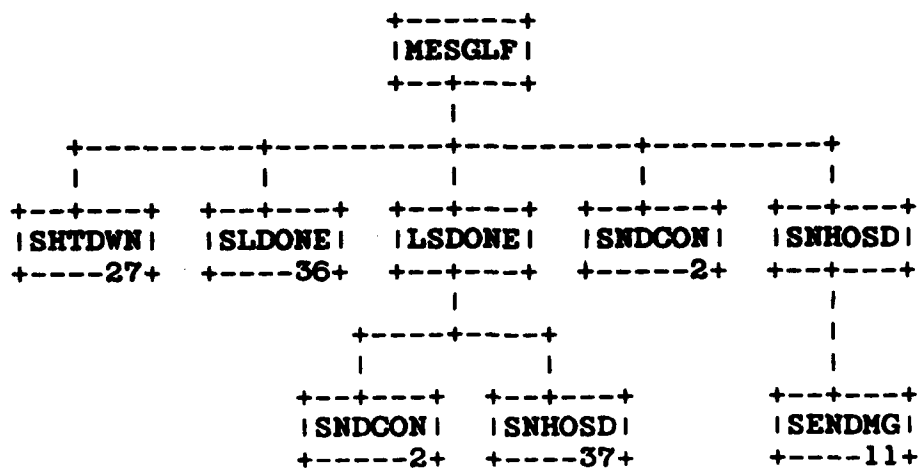
PS 620142100
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36

```
+-----+
|MESGLA|
+-----+
|
+-----+
|
+-----+ +-----+
|SLDONE| |STLNKS|
+-----+ +-----21+
|
+-----+
|
+-----+ +-----+
|STLNKF| |STLNKS|
+-----7+ +-----21+
```

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37



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38

```
      +-----+  
      |MSGTE|  
      +-----+  
      |  
+-----+-----+-----+-----+-----+-----+  
|         |         |         |         |         |         |  
+---+---+ +---+---+ +---+---+ +---+---+ +---+---+ +---+---+  
|SHTDWN| |SCDONE| |SLDONE| |LSDONE| |DADONE| |SNDGON|  
+---27+ +---24+ +---36+ +---37+ +---29+ +---2+  
|         |         |         |         |         |         |
```

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39

```

+-----+
| PRCMSG |
+-----+
|
+-----+-----+-----+-----+-----+
| | | | | |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
| (CONT) | | MESGLO | | MESGOF | | MESGCR | | MESGXU | | (CONT) |
+-----29+ +-----46+ +-----47+ +-----+ +-----48+ +-----49+
|
+-----+-----+
| |
+-----+ +-----+
| LOGTEL | | SNDCON |
+-----46+ +-----2+

```

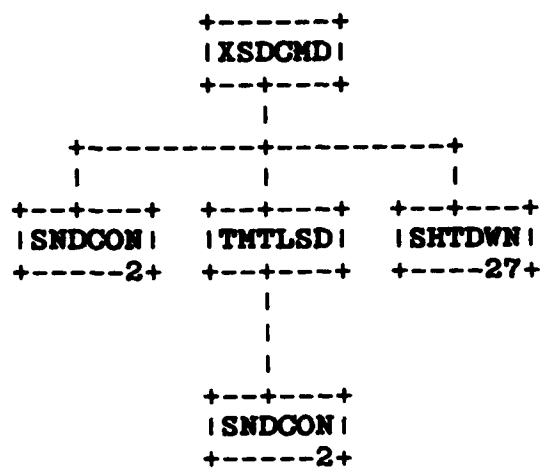
PS 620142100
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40

```
      +-----+
      |TESDSR|
      +-----+
        |
    +-----+-----+-----+-----+
    |         |         |         |         |
+---+---+ +---+---+ +---+---+ +---+---+
|SNDCON| |HOSDSR| |ACSDSR| |LFSDSR|
+-----2+ +-----33+ +-----33+ +-----33+
```

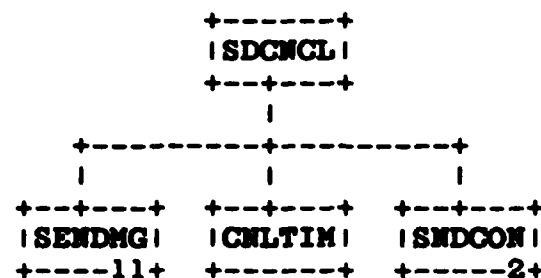

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41



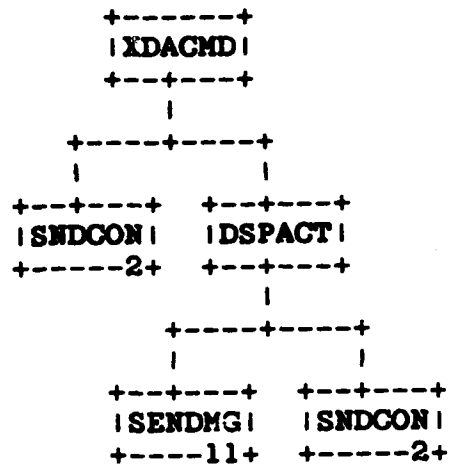
PS 620142100
1 November 1985

42



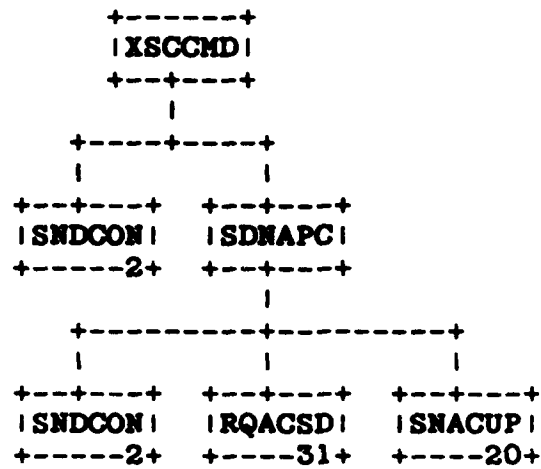
PS 620142100
1 November 1985

43



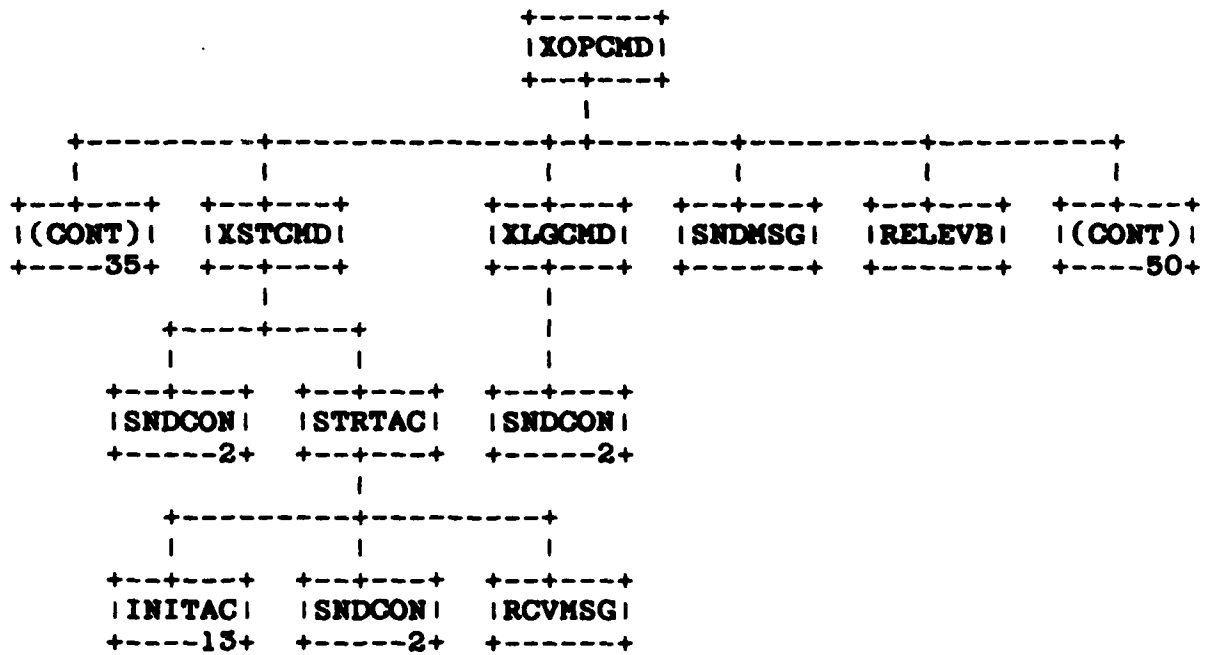
PS 620142100
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44



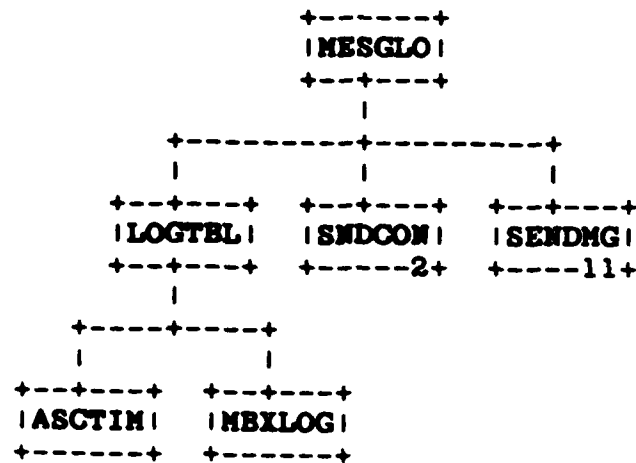
PS 620142100
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45



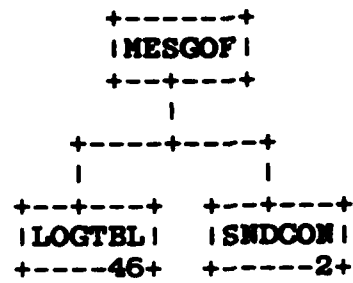
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46



PS 620142100
1 November 1985

47



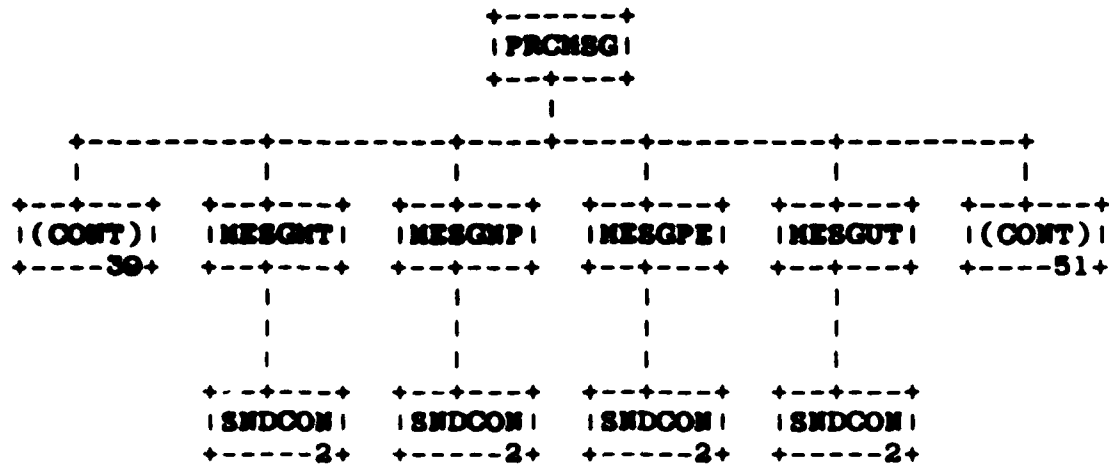
PS 620142100
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48

```

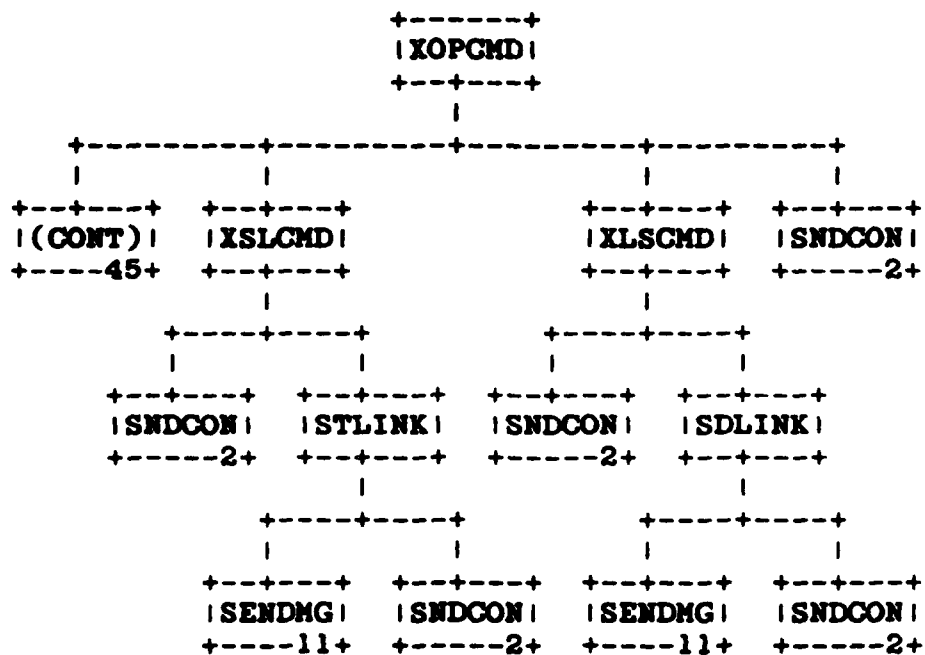
+-----+
|MSGXU|
+-----+
|
+-----+
|
+-----+
|LOGTEL| |SENDNG| |SENDNG|
+-----+ +-----+ +-----+
|46| | | |11|

```

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50



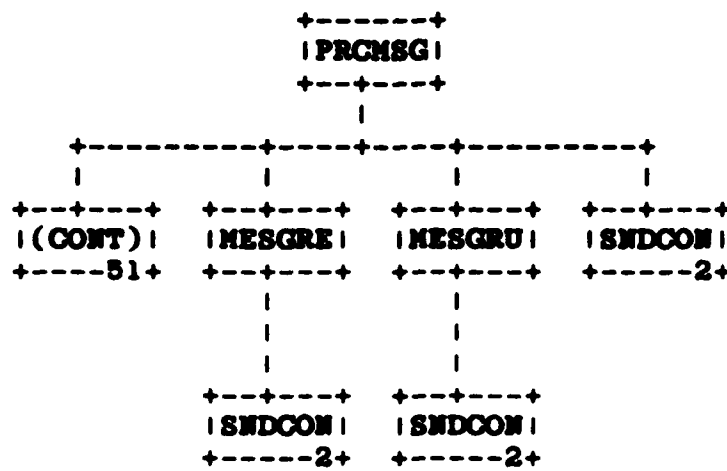
```

+-----+
| PRMSG |
+-----+
|
+-----+-----+-----+-----+-----+-----+
|         |         |         |         |         |         |
|         |         |         |         |         |         |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
| (CONT) | | MESGMQ | | MESGAM | | MESGNL | | MESGAI | | (CONT) |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
|      49 | |         | |         | |         | |         | |      52 |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
|         |         |         |         |         |         |
|         |         |         |         |         |         |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
| SNDCON | | SNDCON | | SNDCON | | SNDCON | | SNDCON |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+
|     -2 | |     -2 | |     -2 | |     -2 | |     -2 |
+-----+ +-----+ +-----+ +-----+ +-----+ +-----+

```

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ACSDSR.....33	NESGCE.....24	SDRDMC.....32
APCINI	NESGCR.....36	SDSTAT.....33
APCSTF.....13	NESGCT.....15	SENDMG.....11
APCETS.....20	NESGHA	SETTIM
ASCTIN	NESGHT.....25	SHTDWN.....27
BLDTL.....9	NESGLA.....36	SLDNE.....36
CATINI	NESGLF.....37	SNACUP.....20
CGSHST.....4	NESGLO.....46	SNDOON.....2
CNLOON.....16	NESGLV.....15	SNDSMG
CNLTIN	NESGMQ.....51	SNHOAC.....20
CRTMBX	NESGNT.....49	SNHOAV.....12
CRTPRC	NESGNL.....51	SNHOSD.....37
DADONE.....29	NESGNP.....49	STCPLT.....12
DELMBX	NESGOF.....47	STLINK.....50
DIRINI	NESGPE.....49	STLNKF.....7
DSPACT.....43	NESGRE.....52	STLNKS.....21
DSPERR.....7	NESGRU.....52	STLOAC.....7
DSTATS.....35	NESGSE.....15	STMTCH.....7
ENDRUN	NESGSH.....15	STRTAC.....45
ERRPRO	NESGTE.....38	STRTUP.....7
FREVTY	NESGUA	SYSSASSIGN
GETCHL	NESGUN	SYSSCANCEL
GETCOON.....2	NESGUT.....49	SYSSCRNPSC
GETDST	NESGXU.....46	SYSSQIO
GETMSG	MONITR.....4	SYSSQIOV
GETTRM.....4	MTRSYS.....15	SYSTRNLOG
GTINST.....2	PRCCON.....35	TELSR.....30
HEXSTS	PRCMG.....15	TESDSR.....40
HOSDSR.....33	PRCSSR.....19	TMTLSD.....41
HSTINI	PRCTHR.....27	TRMTCH.....27
INICON.....5	PRCTSR.....10	WAIT01
INITAC.....13	PRSLKR.....21	WAIT02
INITAE.....8	RCVCON.....2	WAIT03
INTHTR.....6	RCVMSG	WTHOAV.....14
ITHADR	READCN.....2	WTHESG.....21
LFSDSR.....33	RELEVB	XDACMD.....43
LIB\$GET_EF	RQACSD.....31	XLGCMD.....45
LKTOCN.....14	RQRHSD.....32	XLSCMD.....50
LOGINI	RQSTLK.....1	XOPCMD.....35
LOGTEL.....46	SCDONE.....24	XSCCMD.....44
LOGTSK.....3	SDALCP.....34	XSDCMD.....41
LSDONE.....37	SDALNC.....31	XSLCMD.....50
LSTINI	SDALRH.....32	XSTCMD.....45
MBXLOG	SDCNCL.....42	
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3.11 Program Listings Comments

This information is contained in the Module Descriptions in section 3.10.

SECTION 4

QUALITY ASSURANCE PROVISIONS

4.1 Introduction and Definitions

"Testing" is a systematic process that may be preplanned and explicitly stated. Test techniques and procedures may be defined in advance and a sequence of test steps may be specified. "Debugging" is the process of isolation and correction of the cause of an error.

"Antibugging" is defined as the philosophy of writing programs in such a way as to make bugs less likely to occur and when they do occur, to make them more noticeable to the programmer and the user. In other words, as much error checking as is practical and possible in each routine should be performed.

4.2 Computer Programming Test and Evaluation

The quality assurance provisions for test consists of the normal testing techniques that are accomplished during the construction process. They consist of design and code walk-throughs, unit testing, and integration testing. These tests are performed by the design team. Structured design, design walk-through and the incorporation of "antibugging" facilitate this testing by exposing and addressing problem areas before they become coded "bugs".

END

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