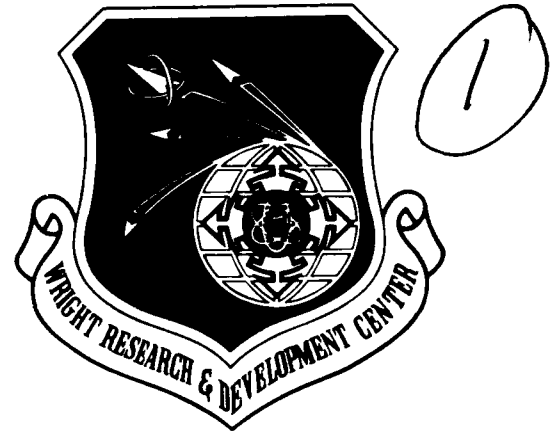


WRDC-TR-90-8007
Volume V
Part 6
Section 2 of 6



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INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume V - Common Data Model Subsystem
Part 6 - Neutral Data Definition Language (NDDL) Product
Specification
Section 2 of 6

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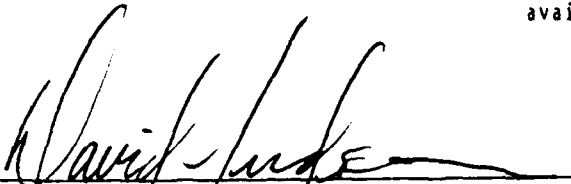
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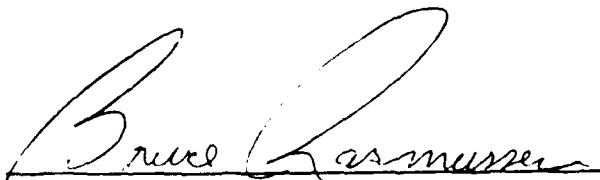
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DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GENCAT	COPAALI	External routine
	ERRPRO	External routine
	SELECNM	Well-defined module
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	Well-defined module
	SELACNM	Well-defined module
	COPCKW	External routine
GENCMPX	GENCNM3	Well-defined module
	ERRPRO	External routine
GENCNM1	CHKCMPX	External routine
	VERRCC	Well-defined module
GENCNM2	ADDPARM	External routine
	FNRCEC	External routine
	SELIAUC	Well-defined module
	VERRCC	Well-defined module
GENCNM3	ADDPARM	External routine
	FNDEC	External routine
	SELIAUC	Well-defined module
	VERRCC	Well-defined module
GENCNME	VERENT	Well-defined module
	ADDPARM	External routine
	SELIAUC	Well-defined module
	VERRCC	Well-defined module



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DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GENCREC	ADDPARM	External routine
	SELIAUC	Well-defined module
GENCRPT	ERRPRO	External routine
	GENECRT	Well-defined module
GENCRUN	UERROR	Well-defined module
	ERRPRO	External routine
	GENEHP	Well-defined module
	ERRPRO	External routine
GENDALG	SELECNM	Well-defined module
	ADDPARM	External routine
	SELDBNM	Well-defined module
	ERRPRO	External routine
GENDB	ADDPARM	External routine
	GTCNTPR	Well-defined module
	ERRPRO	External routine
GENDCOM	ADDPARM	External routine
	GENDESC	Well-defined module
	ALLREC	External routine
	ALLSET	External routine
	VERPCB	Well-defined module
	VERPASS	Well-defined module
	VERDBA	Well-defined module
	VERSCH	Well-defined module
	ERRPRO	External routine
	SELECNM	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	Well-defined module
	GENRNME	Well-defined module
	MIGREL	Well-defined module
	COPRKW	External routine
GENDEP		
	ERRPRO	External routine
	GENDCOM	External routine
GENDESC		
	ERRPRO	External routine
	ADDPARM	External routine
	ADDTXT	External routine
GENDOM		
	UERROR	Well-defined module
	ERRPRO	External routine
	ADDPARM	External routine
	GENDESC	External routine
	ALLDT	External routine
	ALLVALU	External routine
	ALLRNG	External routine
GENDT		
	ERRPRO	External routine
	ADDPARM	External routine
GENECRT		
	ERRPRO	External routine
	ADDPARM	External routine
	VERRULE	Well-defined module
GENEHP		
	ERRPRO	External routine
	SELECNM	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GENEKW	VERRTNO	Well-defined module
	ADDPARM	External routine
	SELDBNM	Well-defined module
GENENT	ERRPRO	External routine
	ADDPARM	External routine
GENENT1	ADDPARM	External routine
	GENOA	Well-defined module
	GENEKW	External routine
GENENT2	ERRPRO	External routine
	GENDESC	External routine
	ADPARM1	External routine
	CMBOA	External routine
	CMBEKW	External routine
	CMBALI	External routine
GENEUN	ERRPRO	External routine
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	COPEKW	External routine
	COPVALI	External routine
	COPOA	External routine
GENFLD	UERROR	Well-defined module
	ERRPRO	External routine
	GENCRUN	External routine
	RETRFLD	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GENFROM	ERRPRO	External routine
	ADDPARM	External routine
	GENDESC	External routine
GENGENC	ERRPRO	External routine
	SELECNM	Well-defined module
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	VERCR	Well-defined module
	VERCRNM	Well-defined module
	SELACNM	Well-defined module
	GENCNME	External routine
	CMBRKW	External routine
GENICOM	ERRPRO	External routine
	SELECNM	Well-defined module
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	SELACNM	Well-defined module
	COPCKW	External routine
	GENCNM2	External routine
	ERRPRO	External routine
	SELECNM	Well-defined module
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	GENRNME	Well-defined module
	MIGREL	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GENIND	COPRKW	External routine
	ERRPRO	External routine
	FNDEC	External routine
GENKEY	GENICOM	External routine
	ERRPRO	External routine
	ADDPARM	External routine
GENMAP	SELKCM	Well-defined module
	ERRPRO	External routine
	SELECNM	Well-defined module
GENMENT	ADDPARM	External routine
	GENTODF	Well-defined module
	GENTOST	Well-defined module
	GENCMPX	External routine
	ERRPRO	External routine
GENMREL	GENEHP	External routine
	SELMTAG	Well-defined module
	GENEUN	External routine
GENMROJ	ERRPRO	External routine
	ADDPARM	External routine
GENOA	ERRPRO	External routine
	ADDPARM	External routine
	SELDBRT	Well-defined module
	VERROJ	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GENPSB	ADDPARM	External routine
	ERRPRO	External routine
GENREC	ADDPARM	External routine
	ERRPRO	External routine
GENREL	ADDPARM	External routine
	SELDBAA	Well-defined module
	GENFLD	External routine
	ADDPRM	External routine
GENREL1	GENRNME	Well-defined module
	MIGREL	Well-defined module
	GENRKW	Well-defined module
	ERRPRO	External routine
GENRKW	ADDPARM	External routine
	GENRNME	Well-defined module
	MIGREL	Well-defined module
	COPRKW	External routine
GENRNME	ERRPRO	External routine
	ADDPARM	External routine
GENSET	ADDPARM	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	ADDPARM	External routine
	GENDESC	External routine
	GETMEMB	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	GETDFSL	Well-defined module
GENTODF		
	ERRPRO	External routine
	ADDPARM	External routine
GENTOST		
	ERRPRO	External routine
	ADDPARM	External routine
GENVIEW		
	UERROR	Well-defined module
	ERRPRO	External routine
	ADDPARM	External routine
	GENDESC	External routine
	WRTDITM	Well-defined module
	SELECXR	Well-defined module
	WRTSLCT	Well-defined module
	WRTWHCL	Well-defined module
	GENALG	External routine
GETACAL		
	UERROR	Well-defined module
	ERRPRO	External routine
	DELACAL	External routine
GETCARD		
	ERRPRO	External routine
GETCRID		
	ERRPRO	External routine
GETCRNM		
	ERRPRO	External routine
	RETRECP	Well-defined module
	GETCRID	External routine
GETDBST		
	CPFONE	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UERROR	Well-defined module
	CPFNXT	External routine
	ERRPRO	External routine
	CHGLOBL	External routine
	VERDBAS	Well-defined module
	GETGLOB	Well-defined module
GETDFS		
	ERRPRO	External routine
	ADDPARM	External routine
GETDOM		
	ERRPRO	External routine
GETDRT		
	CPFONE	External routine
	UERROR	Well-defined module
	VERRT	Well-defined module
	VERDBAS	Well-defined module
GETDTN		
	ERRPRO	External routine
GETECAL		
	UERROR	Well-defined module
	ERRPRO	External routine
	DELECAL	External routine
GETECNM		
	STRNCPY	External routine
GETECS		
	ERRPRO	External routine
	ADDPARM	External routine
	CHKREL	External routine
	CHKRELC	External routine
	CHKKEYS	External routine
	CHKATT	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GETGLOB		
GETMEMB	STRNCPY	External routine
	ERRPRO	External routine
	ADDPARM	External routine
GETNCHR		
GETNNUM	GETCHAR	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	SPRINTF	External routine
	GETNXNO	Well-defined module
GETNXNO		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLAB2	External routine
	UPDNXNO	Well-defined module
GETRCID		
GETRCNM	ERRPRO	External routine
	ERRPRO	External routine
	RETRECP	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
GETRDH	GETRCID	External routine
	CPFONE	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	CHGLOBL	External routine
	VERDBAS	Well-defined module
	GETGLOB	External routine
GTAUCPR		
GTCNTPR	ERRPRO	External routine
	ERRPRO	External routine
	ADDPARM	External routine
GTDIPR		
GTDTTYP	ERRPRO	External routine
GTVIEWS	ERRPRO	External routine
	ERRPRO	External routine
	GENVIEW	External routine
HALT		
	CPFONE	External routine
	COMMIT	External routine
	ROLBACK	Well-defined module
HOOK_FORM		
	UERROR	Well-defined module
	ERRPRO	External routine
	SPRINTF	External routine
	STRNCMP	External routine
	INITFP	External routine
	OPNFRM	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
HPNLOOK	ADDFRM	External routine
	CPFONE	External routine
	UERROR	Well-defined module
	CONVCPF	External routine
	ERRPRO	External routine
	VERECN	Well-defined module
ICOPATT	VERHPN	Well-defined module
	UERROR	Well-defined module
	ERRPRO	External routine
	UWARN	Well-defined module
	INSACNM	Well-defined module
	WRTALI	Well-defined module
	WRTACKW	Well-defined module
	WRTDESC	Well-defined module
ICOPENT	BLDATT	External routine
	UERROR	Well-defined module
	GETNNUM	External routine
	ERRPRO	External routine
	WRTDESC	Well-defined module
	INSECNM	Well-defined module
	INSEC	Well-defined module
	WRTECKW	Well-defined module
INDFROM	WRTENAM	Well-defined module
	COPYAC	External routine
	ERRPRO	External routine
	SELECNM	Well-defined module
	VERENT	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ADDPARM	External routine
	GENDESC	External routine
	VERLR	Well-defined module
	CMBRKW	External routine
	VERRCNM	Well-defined module
	GENRNME	External routine
	MIGREL	Well-defined module
INITCMD		
INITRDL		
INITSES		
	UERROR	Well-defined module
	ERRPRO	External routine
	VERTYP	Well-defined module
	SPRINTF	External routine
	STRNCPY	External routine
	STRNCMP	External routine
	HOOK_FORM	External routine
INS1PSB		
INS1ROJ	ERRPRO	External routine
INSAC	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
INSACNM	SQLAB2	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSAISM		
INSAPRM	ERRPRO	External routine
INSAREA	ERRPRO	External routine
INSAUC	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
INSAUCS		
INSCATM	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSCATR		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	STRLEN	External routine
INSCOPA		
INSCRC	ERRPRO	External routine
	SQLSCA	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSDAA		
	ERRPRO	External routine
INSDB		
	ERRPRO	External routine
INSDBH		
	ERRPRO	External routine
INSDBMS		
	ERRPRO	External routine
INSDISC		
	ERRPRO	External routine
INSDFPA		
	ERRPRO	External routine
INSDI		
	ERRPRO	External routine
INSDIPA		
	ERRPRO	External routine
INSDOM		
	ERRPRO	External routine
INSDSCT		
	ERRPRO	External routine
INSDSL		
	SQLSCA	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSDT		
	UERROR	Well-defined module
	GETNUM	External routine
	ERRPRO	External routine
INSEC		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSECNM		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSECRF		
	ERRPRO	External routine
INSECRT		
	ERRPRO	External routine
INSGECLST		
	MALLOC	External routine
INSHST		
	ERRPRO	External routine
INSIAUC		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	QLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSKC		
	ERRPRO	External routine
INSKCM		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
INSKW	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSKWAC	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
INSKWEC	SQLAB2	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSKWRC	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSLNKR	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
INSMOD	ERRRPT	External routine
	SQLAB2	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLSXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	CDSDATE	External routine
INSNODE		
INSOAC	MALLOC	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLSXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSORDR		
INSPARM	MALLOC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
INSPART	ERRPRO	External routine
INSPCB	ERRPRO	External routine
INSPDF	ERRPRO	External routine
INSPDI	ERRPRO	External routine
INSPWRD	ERRPRO	External routine
INSQCRF	ERRPRO	External routine
INSQCTG	ERRPRO	External routine
INSRC	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	STRLEN	External routine
INSRCRS	SQLSCA	External routine
	SQLSCH	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSRNG		
INSRSET	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSRTPA		
INSRTYP	ERRPRO	External routine
	ERRPRO	External routine
INSRULE		
	ERRPRO	External routine
INSSCH		
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
INSSMOD	ERRPRO	External routine
INSSTM	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
INSTAGLST		
INSTFLD	MALLOC	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLSQS	External routine
	SQLAB2	External routine
INSTGPA	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
INSUNIN		
	ERRPRO	External routine
INSVAL		
	ERRPRO	External routine
INSVIEW		
	ERRPRO	External routine
INSVMOD		
	ERRPRO	External routine
KCINH		
	UERROR	Well-defined module
	GETNNUM	External routine
	ERRPRO	External routine
	INSAUC	External routine
	INSIAUC	External routine
	VERATAG	Well-defined module
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLAD1	External routine
	SQLFCH	External routine
KCMADD		
	UERROR	Well-defined module
	ERRPRO	External routine
	INSKCM	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
KCMDRP	VERATAG	Well-defined module
	VERTKCM	Well-defined module
	KCINH	External routine
KCMSUBS	UERROR	Well-defined module
	ERRPRO	External routine
	VTAGAUC	Well-defined module
	VERTKCM	Well-defined module
	DELAECM	External routine
	DMIGKKC	External routine
KEYADS	CPFONE	External routine
	UERROR	Well-defined module
	CPFNXT	External routine
	ERRPRO	External routine
	VERATAG	Well-defined module
	VERTKCM	Well-defined module
	FETITAG	External routine
	KEYSUB	Well-defined module
KEYLOOK	CPFONE	External routine
	UERROR	Well-defined module
	CPFNXT	External routine
	LOWUPP	Well-defined module
	ERRPRO	External routine
	CHKCAT	External routine
	KCMSUBS	External routine
	KCMADD	External routine
	KCMDRP	External routine
KEYLOOK	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	TERKEY	Well-defined module
KEYSUB	ERRPRO	External routine
	MODAAUC	Well-defined module
	MODAKCM	Well-defined module
	MODIAUC	Well-defined module
KYSTRUC	ERRPRO	External routine
	DPKCLST	External routine
	ECSTRUC	External routine
LDECLST	UERROR	Well-defined module
	ERRPRO	External routine
LOADESC	ERRPRO	External routine
	CLSFIL	External routine
	OPNFIL	External routine
	WRDSFL	Well-defined module
	EDITCI	External routine
	FILEINS	External routine
LOOPDEP		
LOWUPP		
	TOUPPER	External routine
	ISLOWER	External routine
LVLCHK	ERRRPT	External routine
	COOPEN	External routine
	COCLOSE	External routine
	COFETCH	External routine
	COEXEC	External routine
	COBINDN	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
LVLCHK1	CODFINN	External routine
	COSQL3	External routine
	ERRRPT	External routine
	COOPEN	External routine
	COCLOSE	External routine
	COFETCH	External routine
	COEXEC	External routine
	COBINDN	External routine
MALTOAT	CODFINN	External routine
	COSQL3	External routine
	ERRPRO	External routine
	ADDPARM	External routine
MAPADF	VERKCM	Well-defined module
	UERROR	Well-defined module
	ERRPRO	External routine
	INSAISM	External routine
	VALDTN	Well-defined module
	VERTAG	Well-defined module
	VERDTFL	Well-defined module
	VERECRT	Well-defined module
	VERMAPD	Well-defined module
	VERAIMR	Well-defined module
MAPAREC	INSPDF	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	VERDB	Well-defined module
	VERRT	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
MAPAROJ	INSECR	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	VERDB	Well-defined module
	VERRT	Well-defined module
	VERECRT	Well-defined module
	VERRCT	Well-defined module
	VERCRTC	Well-defined module
	VALROJ	Well-defined module
MAPASET	SELCRDN	Well-defined module
	INS1ROJ	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	INSAISM	External routine
	VERRT	Well-defined module
	VERSMS	Well-defined module
	CHKAUCV	External routine
	VERRCBS	Well-defined module
MAPRC	VERECRT	Well-defined module
	VERAIMR	Well-defined module
	VOMAPS	Well-defined module
	INSAUCS	External routine
	UERROR	Well-defined module
	FNDASA	External routine
	SPRINTF	External routine
	STRNCPY	External routine
	FND1MEM	External routine
	VERRCMP	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
MGENENT	INSRCRS	External routine
	ADDPARM	External routine
	COPEKW	External routine
MGENOA	MGENOA	Well-defined module
	ERRPRO	External routine
	ADDPARM	External routine
MGENREL	MALTOAT	External routine
	ADDPARM	External routine
	GENRNME	External routine
MIGREL	MIGREL	Well-defined module
	GENRKW	External routine
	VERRCC	Well-defined module
MKRNLS1	ADDPARM	External routine
	NEXTKC	Well-defined module
	SELIAUC	Well-defined module
MKRNLS1	UERROR	Well-defined module
	CPFNXT	External routine
	CPFVAL	External routine
MKRNLS1	VERKCMG	Well-defined module
	CPFONE	External routine
	UERROR	Well-defined module
MODAAUC	CPFNXT	External routine
	VERKCMG	Well-defined module
	UERROR	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
MODACEC		
MODACKW	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
MODAISM		
MODAKCM	ERRPRO	External routine
	UERROR	Well-defined module
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
MODATT		
	ERRPRO	External routine
	CREATTR	External routine
MODAUCE		
	UERROR	Well-defined module
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
MODDBAL		
	ERRPRO	External routine
MODECKW		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
MODENT	ERRPRO	External routine
	WRTENT	External routine
MODIAUC	UERROR	Well-defined module
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
MODKC	ERRPRO	External routine
	FNDEC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
MODKCNM	AKCROW	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
SQLWNR	External routine	
MODLOC		
MODOATT	ERRPRO	External routine
	ERRPRO	External routine
MODPCB	ERRPRO	External routine
	WFOAT	Well-defined module
MODPWRD	ERRPRO	External routine
MODRCKC	ERRPRO	External routine
	ERRPRO	External routine
	FNDEC	External routine
	INITRDL	External routine
	STARTBL	Well-defined module
MODRCKW	SELIKEY	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
MODREL		
	UERROR	Well-defined module
	ERRPRO	External routine
	SELECNM	Well-defined module
	GENDESC	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLX	External routine
	SQLAD1	External routine
	SQLFCH	External routine
	SQLTFL	External routine
	SQLPN	External routine
	FNDRCEC	External routine
	ALLKEY	External routine
	MGENREL	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
MODREL1	UERROR	Well-defined module
	ERRPRO	External routine
	SELECNM	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLAD1	External routine
	SQLFCH	External routine
	SELACNM	Well-defined module
	SQLTFL	External routine
	SQLOPN	External routine
	FNDRCEC	External routine
	ALLKEY	External routine
	GENCNM1	External routine
	COPCKW	External routine
MODRELA	ERRPRO	External routine
	ADDPARM	External routine
	MODREL1	External routine
	MODREL	External routine
MODSCH		
MODYFLD	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLSQS	External routine
	SQLAB2	External routine
MRGMOD		
	CPFONE	External routine
	UERROR	Well-defined module
	CPFNXT	External routine
	ERRPRO	External routine
	ADDPARM	External routine
	VERMOD	Well-defined module
	NFLOPEN	Well-defined module
	NFLCLOS	Well-defined module
	EXCFLAG	External routine
	MRGMOD1	Well-defined module
	BLKCLST	External routine
	MRGNODE	Well-defined module
	MRGMOD2	Well-defined module
MRGMOD1		
	ERRPRO	External routine
	BLKCLST	External routine
	ALLATT	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
MRGMOD2	ALLENT	External routine
	TOPNODE	Well-defined module
	ALLREL	External routine
	ERRPRO	External routine
	SELECNM	Well-defined module
	VERENT	Well-defined module
	ADDPARM	External routine
	BLRCKC	External routine
	VERCRNM	Well-defined module
	GENENT1	External routine
	VERRCNM	Well-defined module
	GETRCID	External routine
	GETCRID	External routine
	MODREL1	External routine
	MODREL	External routine
	CKDUPEC	External routine
MRGNODE	UERROR	Well-defined module
	SELECNM	Well-defined module
	VERENT	Well-defined module
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	GENENT1	External routine
	GENALTE	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SPRINTF	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLSQS	External routine
	SQLAB2	External routine
NCOMMIT		
NDDL/MAIN	ERRPRO	External routine
	STRNCPY	External routine
	STRCPY	External routine
	PRINTF	External routine
	STRCAT	External routine
	ERRTRAP	External routine
	SCANF	External routine
	SIGNAL	External routine
	INITSES	External routine
	PROCMD	Well-defined module
	TERMSES	Well-defined module
	TRMDDL	Well-defined module
	EXIT	External routine
NEWTAGM		
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQS	External routine
	SQLADR	External routine
	SQLAB1	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLLEX	External routine
	SQLCLS	External routine
	SQLAD1	External routine
	SQLFCH	External routine
NEXTKC		
	STRNCPY	External routine
NEXTKCM		
	STRNCPY	External routine
NFLCLOS		
	FCLOSE	External routine
NFLOPEN		
	UERROR	Well-defined module
	SPRINTF	External routine
	ESCPY	External routine
	FOPEN	External routine
NRGET		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLLEX	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLAB2	External routine
	GETNXNO	External routine
	DELREUS	External routine
NROLBAK		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
NRSTORE		
	MALLOC	External routine
OLDTAGM		
	UERROR	Well-defined module
	ERRPRO	External routine
	SELKCMA	Well-defined module
ORALON		
	ERRPRO	External routine
	SQLSCA	External routine
	SQLADR	External routine
	SQLLO1	External routine
OUTDESC		
	ERRPRO	External routine
	OUTFIL	External routine
	CLSFIL	External routine
	OPNFIL	External routine
P1FROM		
	ALLVIEW	External routine
	SMVIEW	Well-defined module
	CHKDOMS	External routine
PNOFROM		
	UERROR	Well-defined module
	VERENT	Well-defined module
	CHKDOMS	External routine
PRESMIG		
	UERROR	Well-defined module
	ERRPRO	External routine
	UWARN	Well-defined module
	DELKCMT	External routine
	DELAKCM	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
PROC DT	DMIGKKC	External routine
	DELAUCL	External routine
	DMIGKRC	External routine
	DELIAUC	External routine
	CPFONE	External routine
	UERROR	Well-defined module
	CPFNXT	External routine
	CPFCOR	External routine
	LOWUPP	External routine
	VERTYP	Well-defined module
PROC MD	ADDDT	External routine
	DRPDT	External routine
	ALTDT	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	UWARN	Well-defined module
	GETNCHR	External routine
	SPRINTF	External routine
	STRNCPY	External routine
	STRNCMP	External routine
	STRCPY	External routine
	COMMIT	External routine
	ROLBACK	Well-defined module
	PMSGLS	External routine
	RESETFN	External routine
	COMMITMN	External routine
	COMMITFN	External routine
	RESETMN	External routine
	INITCMD	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	PDATA	External routine
	BRANCHR	External routine
	RMVPAG	External routine
	PUTCHAR	External routine
	YYPARSE	Well-defined module
	OISCR	External routine
	GDATA	External routine
	RPLFRM	External routine
PROCPRM		
	UERROR	Well-defined module
	CPFNXT	External routine
	CPFVAL	External routine
	LOWUPP	External routine
	ADDP RMS	External routine
RACKW2		
	ERRPRO	External routine
	ADDPARM	External routine
	RETRACP	Well-defined module
RCCHEK		
	CPFNXT	External routine
	VERENT	Well-defined module
	VERCR	Well-defined module
	VERLR	Well-defined module
RCCHEK1		
	VERENT	Well-defined module
	VERCR	Well-defined module
	VERLR	Well-defined module
RCLASA		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLSQS	External routine
	SQLAB2	External routine
	CPARM	External routine
RCLASS	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLSQS	External routine
	SQLAB2	External routine

DOCGROU PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	CPARM	External routine
RDDESC	UERROR	Well-defined module
	FILEINS	External routine
	SPRINTF	External routine
	ERRRPT	External routine
	STRINS	Well-defined module
	COOPEN	External routine
	COCLOSE	External routine
	COBINDN	External routine
	COSQL3	External routine
RECKW2	ERRPRO	External routine
	ADDPARM	External routine
	RETRECP	Well-defined module
RECSEMS	UERROR	Well-defined module
	VERDTYP	Well-defined module
	ERRPRO	External routine
RELKW	ERRPRO	External routine
	RETRCKW	Well-defined module
	RRCKW2	Well-defined module
REVIEW	UERROR	Well-defined module
	STRQCRF	Well-defined module
	PIFROM	External routine
	VALVWRC	Well-defined module
	PNOFROM	External routine
RENMOBJ	CPFONE	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UERROR	Well-defined module
	CPFNXT	External routine
	LOWUPP	External routine
	VERKW	Well-defined module
	VERDFID	Well-defined module
	VERDB	Well-defined module
	VERATT	Well-defined module
	VERENT	Well-defined module
	VERHST	Well-defined module
	VERDOM	Well-defined module
	VERMOD	Well-defined module
	VERVIEW	Well-defined module
	DELKW	External routine
	VERDIID	Well-defined module
	VERSTID	Well-defined module
	VERRTID	Well-defined module
	VERDTN	Well-defined module
	RCCHEK	External routine
	RCCHEK1	External routine
	UPDECNM	Well-defined module
	UPDACNM	Well-defined module
	UPDRCNM	Well-defined module
	UPDTKW	Well-defined module
	UPDMNAM	Well-defined module
	UPDTDOM	Well-defined module
	UPDVIEW	Well-defined module
	UPDHOST	Well-defined module
	UPDDTI	Well-defined module
	UPDSET	Well-defined module
	UPDREC	Well-defined module
	UPDFLD	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UPDDBN	Well-defined module
	UPDDT	Well-defined module
	MODACKW	External routine
	MODECKW	External routine
	MODRCKW	External routine
RETACKW		
	ERRPRO	External routine
RETATTR		
	ERRPRO	External routine
RETDT		
	ERRPRO	External routine
RETECKW		
	UERROR	Well-defined module
	ERRPRO	External routine
RETRAC1		
	ERRPRO	External routine
	VERATT	Well-defined module
	ADDPARM	External routine
RETRAC2		
	ERRPRO	External routine
	ADDPARM	External routine
	VERATTP	Well-defined module
RETRACP		
	ERRPRO	External routine
RETRCKW		
	ERRPRO	External routine
RETREC1		
	ERRPRO	External routine
	VERENT	Well-defined module
	ADDPARM	External routine
RETREC2		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
	ADDPARM	External routine
	VERENTP	Well-defined module
RETRECP		
	ERRPRO	External routine
RETRFLD		
	UERROR	Well-defined module
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLOSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEX	External routine
	SQLCLS	External routine
	SQLAD1	External routine
	SQLFCH	External routine
RETRNGA		
	ERRPRO	External routine
	RNGVERF	Well-defined module
RETSTD		
	ERRPRO	External routine
RETVALA		
	ERRPRO	External routine
	VALVERF	Well-defined module
RETVMOD		
	ERRPRO	External routine
RNGVERF		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
ROLBACK	UERROR	Well-defined module
	ERRPRO	External routine
	SPRINTF	External routine
	NROLBAK	External routine
RRCKW2	ERRPRO	External routine
	ADDPARM	External routine
	GETRCNM	External routine
	GETCRNM	External routine
SAVTAGS	UERROR	Well-defined module
	ERRPRO	External routine
SEL1DSC	UERROR	Well-defined module
	ERRPRO	External routine
	INSDISC	External routine
SELACNM	ERRPRO	External routine
SELAIMP	UERROR	Well-defined module
	ERRPRO	External routine
	DEL1ERT	External routine
	DEL1AIM	External routine
SELAIMT	UERROR	Well-defined module
	ERRPRO	External routine
	DEL1ERT	External routine
	DEL1AIM	External routine
SELAISM	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
SELAPRM	UERROR ERRPRO	Well-defined module External routine
SELCATC	ERRPRO	External routine
SELCATM	ERRPRO	External routine
SELCRAD	ERRPRO	External routine
SELCRDN	ERRPRO	External routine
SELDB	UERROR ERRPRO GENDB	Well-defined module External routine External routine
SELDBAA	ERRPRO ADDPARM	External routine External routine
SELDBMS	ERRPRO	External routine
SELDBNM	ERRPRO	External routine
SELDBRT	ERRPRO	External routine
SELDESC	UERROR ERRPRO INSDISC	Well-defined module External routine External routine
SELDFPM	UERROR ERRPRO	Well-defined module External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
SELDI	ERRPRO	External routine
SELDSTP	ERRPRO WRTDSTP	External routine Well-defined module
SELECNM	ERRPRO	External routine
SELECXR	UERROR ERRPRO	Well-defined module External routine
SELHOST	ERRPRO ADDPARM	External routine External routine
SELHP	ERRPRO	External routine
SELHSTS	ERRPRO CPY1HST	External routine External routine
SELIAUC	SQLSCA SQLSCH SQLSCC SQLTOC SQLOSQ SQLEXE SQLCLS SQLFCH STRNCPY SQLBS2 ERRRPT SQLAD2	External routine External routine External routine External routine External routine External routine External routine External routine External routine External routine External routine External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSQS	External routine
	SQLAB2	External routine
	FMTIAUC	External routine
SELIKEY		
	ERRPRO	External routine
SELKCM		
	ERRPRO	External routine
	ADDPARM	External routine
	VERITAG	Well-defined module
SELKCMA		
	UERROR	Well-defined module
	ERRPRO	External routine
SELMODS		
	ERRPRO	External routine
	CPY1SMD	External routine
SELMREC		
	ERRPRO	External routine
	UWARN	Well-defined module
	GENMAP	External routine
	GENCRPT	External routine
	GENCRUN	External routine
	GENCREC	External routine
SELMTAG		
	ERRPRO	External routine
	UWARN	Well-defined module
	GENMAP	External routine
SELPARM		
	UERROR	Well-defined module
	ERRPRO	External routine
SELPEC		
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
SELRCNM	ERRPRO	External routine
	UWARN	Well-defined module
SELRELC	ERRPRO	External routine
SELRELL	ERRPRO	External routine
SELRMAP	ERRPRO	External routine
	UWARN	Well-defined module
	ADDPARM	External routine
	GENMREL	External routine
SELRSET	UERROR	Well-defined module
	ERRPRO	External routine
	FNDASA	External routine
	ADDRNUM	External routine
	DELTEXT	External routine
	VERRSUS	Well-defined module
	DELRST2	External routine
	VERRCBS	Well-defined module
	DELSTM2	External routine
SELRTPM	UERROR	Well-defined module
	ERRPRO	External routine
SELSET	ADDPARM	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSQ	External routine
	SQLXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	GENMREL	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLSQS	External routine
	SQLAB2	External routine
SELSETC	ADDPARM	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	GENMREL	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLSQS	External routine
	SQLAB2	External routine
SELSTM	UERROR	Well-defined module
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	FNDASA	External routine
	ADDRNUM	External routine
	DELTEXT	External routine
	VERRSUS	Well-defined module
	DELRST2	External routine
	VERRCBS	Well-defined module
	DELSTM2	External routine
SELTGEC		
	ERRPRO	External routine
SELUNIN		
	ERRPRO	External routine
SELURT		
	UERROR	Well-defined module
	ERRPRO	External routine
	DELUNIN	External routine
	DEL1ERT	External routine
	ECRTALL	External routine
	DRPRULE	External routine
SETCOMM		
	CPFONE	External routine
	STRNCMP	External routine
SETGLOB		
	UERROR	Well-defined module
	NFLOPEN	External routine
	NFLCLOS	External routine
	SPRINTF	External routine
SETOUT		
	CPFONE	External routine
	LOWUPP	External routine
	ERRPRO	External routine
	SETGLOB	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
SMVIEW	UERROR	Well-defined module
	GETNNUM	External routine
	VERSDT	Well-defined module
	INSDI	External routine
	INSPDI	External routine
	GETDOM	External routine
STARTBL	UERROR	Well-defined module
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLAD1	External routine
	SQLFCH	External routine
	BLDRCEC	External routine
STRINS	UERROR	Well-defined module
	ERRPRO	External routine
	DELTX	External routine
	GETNCHR	External routine
STRQCRF	UERROR	Well-defined module
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	INSQCRF	External routine
	INSQCTG	External routine
STRTLST		
	MALLOC	External routine
TERATTR		
	UERROR	Well-defined module
	GETNNUM	External routine
	ERRPRO	External routine
	INSAUC	External routine
	VEROAC	Well-defined module
	INSOAC	External routine
	VERKCM	Well-defined module
	BLDATT1	External routine
	KEYLOOK	External routine
TERDIR		
	CPFONE	External routine
	ERRPRO	External routine
	ICOPENT	External routine
TERKEY		
	UERROR	Well-defined module
	GETNNUM	External routine
	ERRPRO	External routine
	INSKC	External routine
	INSKCM	External routine
TERMSSES		
	TERMFP	External routine
TERREL		
	CPFONE	External routine
	UERROR	Well-defined module
	CPFNXT	External routine
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UWARN	Well-defined module
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	SELRELC	External routine
	SELRELL	External routine
	BLKCL1	External routine
	GENALTE	External routine
	NFLOPEN	External routine
	NFLCLOS	External routine
	LDECLST	External routine
	COPEKW	External routine
	COPVALI	External routine
	COPOA	External routine
	DEPKCM	External routine
	DEPKCM1	External routine
	GENDEP	External routine
	GENCAT	External routine
	GENIND	External routine
	GENGENC	External routine
TERSIM	CPFONE	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	ADDPARM	External routine
	GENDESC	External routine
	NFLOPEN	External routine
	NFLCLOS	External routine
	COPEKW	External routine
	COPVALI	External routine
	COPOA	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
TERSTR	GENKEY	External routine
	CPFONE	External routine
	UERROR	Well-defined module
	CPFNXT	External routine
	ERRPRO	External routine
	VERENT	Well-defined module
	ADDPARM	External routine
	GENDESC	External routine
	BLKCL1	External routine
	GENALTE	External routine
	NFLOPEN	External routine
	NFLCLOS	External routine
	LDECLST	External routine
	DEPEC	External routine
	COPEKW	External routine
	COPVALI	External routine
	COPOA	External routine
	BLRCKC1	External routine
	DEPENTD	External routine
	DEPRELA	External routine
TLOOPCK	ADDPARM	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLAB2	External routine
	FRELST1	External routine
	STRCPY	External routine
	LOOPDEP	External routine
	ADDNODE	External routine
	STRTLST	External routine
TOPNODE		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLCLS	External routine
	SQLFCH	External routine
	GENALTE	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLSQS	External routine
	SQLAB2	External routine
	GETECNM	External routine
TRADIR		
	CPFONE	External routine
	UERROR	Well-defined module
	GETNNUM	External routine
	ERRPRO	External routine
	WRTDESC	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	INSECNM	External routine
	INSEC	External routine
	WRTECKW	Well-defined module
TRAFIL	CPFONE	External routine
	UERROR	Well-defined module
	ERRPRO	External routine
	ADDPARM	External routine
	GENDESC	External routine
	NFLOPEN	External routine
	NFLCLOS	External routine
	COPEKW	External routine
	COPVALI	External routine
	COPOA	External routine
TRMDDL	ERRPRO	External routine
	CDS01	External routine
TXTTYP	CPFONE	External routine
UERROR	PRINTF	External routine
	CRTErr	External routine
	PMSGSL	External routine
UINDDL/MAIN	ERRPRO	External routine
	STRNCPY	External routine
	STRNCMP	External routine
	ERRTRAP	External routine
	SIGNAL	External routine
	INITSES	External routine
	PROCMD	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	TERMSES	External routine
	EXIT	External routine
	INITAL	External routine
	TRMDML	External routine
UPD1PSB		
	ERRPRO	External routine
UPDAC		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDACAL		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDACNM	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDAPP	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDAUC	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQL EXE	External routine
	SQL TFL	External routine
	SQL OPN	External routine
	SQL WNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDAUCE		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQL OSQ	External routine
	SQL EXE	External routine
	SQL TFL	External routine
	SQL OPN	External routine
	SQL WNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDAUCS		
UPDCRNM	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQL OSQ	External routine
	SQL EXE	External routine
	SQL TFL	External routine
	SQL OPN	External routine
	SQL WNR	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDDAA	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDB	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDBH	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDBN	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDDI	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDF		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLLEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDFU		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLLEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDDI	ERRRPT	External routine
	SQLAB2	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDDT	UERROR	External routine
	UPDDDI	External routine
	UPDEDF	Well-defined module
	UPDUDT	Well-defined module
	UPDMP	Well-defined module
UPDDTI	UERROR	External routine
	UPDDI	External routine
UPDECAL	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDECNM	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDEDF	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLAB2	External routine
UPDFDF	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDFDFU	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDFLD	UERROR	External routine
	UPDFDF	External routine
	UPDFDFU	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDFPDF	UPDFPDF	Well-defined module
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDHOST	UERROR	External routine
	UPDHST	Well-defined module
	UPDDB	External routine
	UPDDBH	External routine
	UPDPSB	Well-defined module
UPDHST	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDIND	ERRRPT	External routine
	SQLAB2	External routine
UPDKCT	ERRPRO	External routine
	SQLSCA	External routine
UPDLRNM	SQLSCH	External routine
	SQLSCC	External routine
	SQLLOSQ	External routine
	SQLLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLLOSQ	External routine
	SQLLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDMJAM		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	CDSDATE	External routine
UPDMOD	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	CDSDATE	External routine
UPDMP	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDNXNO	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDPDF	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDPSB	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRAUC	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRCB	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRCB	SQLSCA	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRCNM	VERRCT	Well-defined module
	STRNCMP	External routine
	UPDCRNM	External routine
	UPDLRNM	External routine
UPDRDFU	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDREC	UERROR	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UPDRT	Well-defined module
	UPDDF	External routine
	UPDRRS	Well-defined module
	UPDDAA	External routine
	UPDRSTM	Well-defined module
	UPDRRCB	Well-defined module
	UPDRDFU	External routine
	UPDPDF	External routine
UPDRRCB		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRRS		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDRSS	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRSTM	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRST	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRT	SQLSCA	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDRULE		
UPDSET	ERRPRO	External routine
	UERROR	External routine
	UPDRSS	External routine
	UPDRCB	External routine
	UPDSTM	Well-defined module
	UPDDFU	External routine
	UPDAUC	External routine
UPDSMOD		
UPDSTM	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDTCR	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDTDOM	STRLEN	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLOSQ	External routine
	SQLEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
UPDTRDT		
UPDTRKW	ERRPRO	External routine
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDTRC		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEX	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	SQLWNR	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDUDT		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UPDVIEW	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLX	External routine
	SQLTFL	External routine
	SQLPN	External routine
	SQLWNR	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
UWARN	PRINTF	External routine
	CRTERR	External routine
	PMSGLS	External routine
VALDROP	UERROR	External routine
	CPFNXT	External routine
	ERRPRO	External routine
	VERDBRT	Well-defined module

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
VALDTN	VERPART	Well-defined module
	DELHPN	External routine
VALROJ	UERROR	External routine
	VERDTYP	Well-defined module
	ERRPRO	External routine
	UWARN	External routine
VALVERF VALVWRC	UERROR	External routine
	ERRPRO	External routine
VERACDT	UERROR	External routine
	ERRPRO	External routine
	SELECNM	External routine
	CDP4A	External routine
VERACNM	ERRPRO	External routine
	UWARN	External routine
VERAIM	ERRPRO	External routine
VERAIMD	ERRPRO	External routine
VERAIMR	ERRPRO	External routine
VERAISM	ERRPRO	External routine
VERALG	ERRPRO	External routine
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	VERAISM	External routine
VERALGI	ERRPRO	External routine
VERALI	ERRPRO	External routine
VERALMP	ERRPRO	External routine
VERAODM	ERRPRO	External routine
VERAPDF	ERRPRO	External routine
VERAPRM	ERRPRO	External routine
VERAREA	ERRPRO	External routine
VERARL	ERRPRO	External routine
VERATAG	ERRPRO	External routine
	UERROR	External routine
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	QLEXE	External routine
	SQLAD1	External routine
	SQLFCH	External routine
	SQLTFL	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
VERATT	SQLOPN	External routine
VERATTP	ERRPRO	External routine
VERAUC	ERRPRO	External routine
VERCMSV	ERRPRO	External routine
VERCMU	ERRPRO	External routine
VERCR	ERRPRO	External routine
VERCRC	ERRPRO	External routine
VERCRDA	ERRPRO	External routine
VERCRNM	ERRPRO	External routine
	ERRPRO	External routine
	VERENT	Well-defined module
VERCRTC	VERCR	External routine
VERDB	ERRPRO	External routine
VERDBA	ERRPRO	External routine
	ERRPRO	External routine
	ADDPARM	External routine
VERDBAA		
VERDBAL	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
VERDBAS		
	ERRPRO	External routine
VERDBH		
	ERRPRO	External routine
VERDBMS		
	ERRPRO	External routine
VERDBRL		
	ERRPRO	External routine
VERDBRT		
	ERRPRO	External routine
VERDBST		
	ERRPRO	External routine
VERDF		
	ERRPRO	External routine
VERDFDT		
	ERRPRO	External routine
	UWARN	External routine
VERDFID		
	ERRPRO	External routine
VERDFLD		
	ERRPRO	External routine
VERDFPA		
	ERRPRO	External routine
VERDFUS		
	ERRPRO	External routine
VERDI		
	ERRPRO	External routine
VERDIDN		
	ERRPRO	External routine
VERDIDT		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
	UWARN	External routine
VERDIID		
	ERRPRO	External routine
VERDIPA		
	ERRPRO	External routine
VERDOM		
	ERRPRO	External routine
VERDPSB		
	ERRPRO	External routine
VERDSCT		
	ERRPRO	External routine
VERDSL3		
	ERRPRO	External routine
VERDSTP		
	ERRPRO	External routine
VERDT		
	ERRPRO	External routine
VERDTD		
	ERRPRO	External routine
VERDTFL		
	ERRPRO	External routine
	GETDTN	External routine
VERDTN		
	ERRPRO	External routine
VERDTYP		
	ERRPRO	External routine
VERDUNI		
	ERRPRO	External routine
VERECN		
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
VERECR		
	ERRPRO	External routine
VERECRT		
	ERRPRO	External routine
VERENT		
	ERRPRO	External routine
VERENTP		
	ERRPRO	External routine
VERERMD		
	ERRPRO	External routine
VERFJOB		
	ERRPRO	External routine
	CLSFIL	External routine
	OPNFIL	External routine
	GETHOST	External routine
	GENFIL	External routine
	CDMACR	External routine
VERHORZ		
	ERRPRO	External routine
VERHPDF		
	ERRPRO	External routine
VERHPN		
	ERRPRO	External routine
VERHPST		
	ERRPRO	External routine
VERHST		
	ERRPRO	External routine
VERHZP		
	ERRPRO	External routine
VERIREL		
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXE	External routine
	SQLCLS	External routine
	SQLAD1	External routine
	SQLFCH	External routine
VERITAG		
VERKC	ERRPRO	External routine
VERKCM	ERRPRO	External routine
VERKCMG	ERRPRO	External routine
VERKCT	ERRPRO	External routine
VERKCT1	ERRPRO	External routine
VERKW	ERRPRO	External routine
VERKWE	ERRPRO	External routine
VERKWR	ERRPRO	External routine
VERLR	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
VERLUW		
	ERRPRO	External routine
VERMAPD		
	ERRPRO	External routine
VERMOD		
	ERRPRO	External routine
VERMPDF		
	ERRPRO	External routine
VERMPDT		
	ERRPRO	External routine
VERMUNI		
	ERRPRO	External routine
VERNMA		
	ERRPRO	External routine
VERNME		
	ERRPRO	External routine
VEROAC		
	ERRPRO	External routine
VEROBJ		
	UERROR	External routine
	CPFNXT	External routine
	VERKW	External routine
	VERDB	External routine
	VERATT	External routine
	VERENT	External routine
	VERCR	External routine
	VERHST	External routine
	VERDOM	External routine
	VERRT	Well-defined module
	VERLR	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	VERMOD	External routine
	VERRSET	Well-defined module
	VERVIEW	Well-defined module
	SPRINTF	External routine
	STRNCMP	External routine
	TOUPPER	External routine
	VERDI	External routine
	VERUDTN	Well-defined module
	VERDFLD	External routine
VEROBJ1	UERROR	External routine
	CPFNXT	External routine
	VERKW	External routine
	VERDB	External routine
	VERATT	External routine
	VERENT	External routine
	VERCR	External routine
	VERHST	External routine
	VERDOM	External routine
	VERRT	Well-defined module
	VERLR	External routine
	VERMOD	External routine
	VERRSET	Well-defined module
	VERVIEW	Well-defined module
	SPRINTF	External routine
	STRNCPY	External routine
	STRNCMP	External routine
	TOUPPER	External routine
	VERDI	External routine
	VERUDTN	Well-defined module
	VERDFLD	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
VERPARG	UERROR	External routine
	ERRPRO	External routine
VERPART	ERRPRO	External routine
VERPASS	ERRPRO	External routine
VERPCB	ERRPRO	External routine
VERPSB	ERRPRO	External routine
VERRCB	ERRPRO	External routine
VERRCBS	ERRPRO	External routine
VERRCC	ERRPRO	External routine
VERRCMP	ERRPRO	External routine
VERRCNM	ERRPRO	External routine
	VERENT	External routine
	VERLR	External routine
VERRCST	ERRPRO	External routine
VERRCT	ERRPRO	External routine
VERREC	ERRPRO	External routine
VERKNG	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
VERROJ	ERRPRO	External routine
VERROJR	ERRPRO	External routine
VERRPS	ERRPRO	External routine
VERRSET	ERRPRO	External routine
VERRSUS	ERRPRO	External routine
VERRT	ERRPRO	External routine
VERRTID	ERRPRO	External routine
VERRTNO	ERRPRO	External routine
VERRULE	ERRPRO	External routine
VERSCH	ERRPRO	External routine
VERSDT	ERRPRO	External routine
VERSMOD	ERRPRO	External routine
VERSMS	ERRPRO	External routine
VERSTID	ERRPRO	External routine
VERTAG	ERRPRO	External routine
VERTAP	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ERRPRO	External routine
VERTAUC		
	ERRPRO	External routine
VERTKCM		
	UERROR	External routine
	ERRPRO	External routine
	SQLSCA	External routine
	SQLBS1	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLTOC	External routine
	SQLSQ	External routine
	SQLADR	External routine
	SQLAB1	External routine
	SQLXEX	External routine
	SQLCLS	External routine
	SQLAD1	External routine
	SQLFCH	External routine
VERTMAP		
	UERROR	External routine
	ERRPRO	External routine
	VERTAP	External routine
	VERTPDI	Well-defined module
	VERVWQU	Well-defined module
	VERTAUC	External routine
VERTPDI		
	ERRPRO	External routine
VERTYP		
	ERRPRO	External routine
VERUDT		
	ERRPRO	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	CONVCHR	External routine
VERUDTN		
	ERRPRO	External routine
VERUNIN		
	ERRPRO	External routine
VERVAL		
	ERRPRO	External routine
VERVIEW		
	ERRPRO	External routine
VERVWQU		
	ERRPRO	External routine
VMODPRM		
	UERROR	External routine
	ERRPRO	External routine
	VERSDT	External routine
	INSPARM	External routine
VOMAPS		
	UERROR	External routine
	ERRPRO	External routine
VROBJ		
	UERROR	External routine
	CPFNXT	External routine
	VERKW	External routine
	VERDB	External routine
	VERATT	External routine
	VERENT	External routine
	VERCR	External routine
	VERHST	External routine
	VERDOM	External routine
	VERRT	External routine
	VERLR	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	VERMOD	External routine
	VERRSET	External routine
	VERVIEW	External routine
	SPRINTF	External routine
	STRNCMP	External routine
	TOUPPER	External routine
	VERDI	External routine
	VERUDTN	External routine
	VERDFLD	External routine
VROBJ1		
	UERROR	External routine
	CPFNXT	External routine
	VERKW	External routine
	VERDB	External routine
	VERATT	External routine
	VERENT	External routine
	VERCR	External routine
	VERHST	External routine
	VERDOM	External routine
	VERRT	External routine
	VERLR	External routine
	VERMOD	External routine
	VERRSET	External routine
	VERVIEW	External routine
	SPRINTF	External routine
	STRNCPY	External routine
	STRNCMP	External routine
	TOUPPER	External routine
	VERDI	External routine
	VERUDTN	External routine
	VERDFLD	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
VTAGAUC	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLFCH	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAD2	External routine
	SQLAB2	External routine
WRDSFL	ERRPRO	External routine
	GETHOST	External routine
	GENFIL	External routine
	OUTDESC	External routine
WRTACKW	UERROR	External routine
	ERRPRO	External routine
	INSKWAC	External routine
WRTALG	UERROR	External routine
	ERRPRO	External routine
	ADDPARM	External routine
	GTCNTPR	External routine
	GTDIPR	External routine
	GTAUCPR	External routine
WRTALI		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UERROR	External routine
	ERRPRO	External routine
	UWARN	External routine
	VERATT	External routine
	INSACNM	External routine
WRTANAM		
	UERROR	External routine
	ERRPRO	External routine
	INSACNM	External routine
WRTDESC		
	SQLSCA	External routine
	SQLSCH	External routine
	SQLSCC	External routine
	SQLSQ	External routine
	SQLXEXE	External routine
	SQLTFL	External routine
	SQLOPN	External routine
	STRNCPY	External routine
	SQLBS2	External routine
	ERRRPT	External routine
	SQLAB2	External routine
WRTDITM		
	ERRPRO	External routine
	ADDPARM	External routine
WRTDSTP		
	ADDPARM	External routine
WRTECKW		
	UERROR	External routine
	ERRPRO	External routine
	INSKWE	External routine
WRTENAM		

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	UERROR	External routine
	ERRPRO	External routine
	VERENT	External routine
	INSECNM	External routine
WRTLIN		
	STRNCPY	External routine
	PMSGLS	External routine
	PUTC	External routine
WRTOAT		
	ERRPRO	External routine
	GENDESC	External routine
	VERKCM	External routine
	FNDEC	External routine
	GENALI	External routine
	GENATT	External routine
WRTSLCT		
	ERRPRO	External routine
	ADDPARM	External routine
WRTWHCL		
	UERROR	External routine
	ERRPRO	External routine
	ADDPARM	External routine
	SELTGEC	External routine
YYERROR		
	UERROR	External routine
	FREE_SYMTAB	External routine
	SPRINTF	External routine
YYNULL		
YYPARSE		
	PRINTF	External routine
	ADD_TO_LST	External routine

DOCGROUP PS41100 Main Program Parts List

Main Pgm Name -----	Module Name -----	Module Type -----
	ADD_CORR	External routine
	PUT_SYMB	External routine
	CHAIN_SYMB	External routine
	ADD_TO_CNT	External routine
	YYERROR	External routine
	MEMCPY	External routine
	NEW_SCOPE	External routine
	YYNUL	External routine
	EXIT_SCOPE	External routine
	YYLEX	External routine
YYWRAP		

3.10.4 Module Documentation

The following documentation describes information which is specific to each individual module in the documentation group being documented in this specification. 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 C (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
3.10.3.

The Module Documentation is arranged alphabetically according
to Module Name.

DOCGROUP PS41100 Module Documentation

NAME: ADDATT
PURPOSE: ASSOCIATES EXISTING ATT WITH ENTITY IN CREAT ENTITY
COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDATT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ADDATT ASSOCIATES AN EXISTING ATTRIBUTE WITH AN
ENTITY CLASS IN THE CREATE ENTITY COMMAND.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS

ROUTINES CALLED:

CPFONE
ADDOAC
UERROR
CPFNXT

DOCGROUP PS41100 Module Documentation

NAME: ADDDT
PURPOSE: ADD DATA TYPES TO CDM DATA BASE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDDT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THE ADD DATA TYPE CLAUSE ADDS THE DATA TYPE NAME,
TYPE, SIZE AND LENGTH OF FIELD, GIVEN THE DOMAIN
NUMBER

SELECT THE DATA TYPE NAME, ID, SIZE,
NAMES OF DECIMALS, AND WHETHER THE TYPE
IS STANDARD OR USER-DEFINED. ADD THE
PARTICULAR TYPE GIVEN THE DOMAIN NUMBER.
REPEAT FOR EACH DATA TYPE TO BE ADDED.

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
DATA-TYPE-NAME DSPLY[X(30)]
TYPE-ID DSPLY[X]
MAX-SIZE DSPLY[S9(9)]
NO-OF-DEC DSPLY[S9(9)]
STD-USER DSPLY[X(4)]

ROUTINES CALLED:

UERROR
ADDSTD
ADDNSTD

DOCGROUP PS41100 Module Documentation

NAME: ADDFLDS
PURPOSE: PROCESSES ADD RECORDS FOR THE ALTER RECORD COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDFLDS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC FOR ADDING AREA OR
FIELD INFORMATION FOR THE ALTER COMMAND.

12/18/89 - ADDED "H" FOR OVERPUNCHED DATATYPE AS VALID FOR
CODASYL

EXTRACT ALL INFORMATION FROM CPFONE,
AND VERIFY INFORMATION BY CHECKING LEVELS,
SUB-COMPONENTS, INDEXING, REDEFINES, ETC.

ARGUMENTS:

DBMS-NAME	DSPLY[X(30)]
DB-ID	DSPLY[S9(9)]
RT-ID	DSPLY[X(30)]
NDDL-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
ERRCDM
DFTBL
UNIQENO
TDFTBL
ERRPRO

ROUTINES CALLED:

CPFCOR
CPFVAL
CPFONE
LOWUPP
UERROR
CONVCPF
RETRFLD
GETNNUM
VERDTYP
CPFNXT
RECSEMS
DELFLDA
INSTFLD
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ADDKC
PURPOSE: CONTROLS PROCESS FOR KEY CLASS CLAUSE FOR
 CREATE/ALTER ENTITY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDKC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ADDKC CONTROLS THE PROCESSING OF THE KEY CLASS
CLAUSE FOR THE CREATE AND ALTER ENTITY COMMANDS.
KEY CLASS CLAUSE CONSISTS OF AN KEY CLASS
NAME, FOLLOWED BY AN OPTIONAL LIST OF ATTRIBUTE USE
CLASS NAMES. THE CLAUSE IS RECURSIVE. KEY CLASS NAME
IS ON A-KC-LST, NO. OF ATTRIBUTE FOR KEY CLASS IN
A-NUM-LST AND LIST OF ATTRIBUTE IN A-AUC-LST.

ODIFIED 5/5/89: TO HANDLE PRIMARY AND ALTERNATE KEY CLASS TYPES

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]

INCLUDE FILES:

UNIQENO
LISTNOS

ROUTINES CALLED:

CPFONE
LOWUPP
VERKCT
CPFVAL
CPFNXT
VERKC
UERROR
GETNNUM
INSKC
ADDKM

DOCGROUP PS41100 Module Documentation

NAME: ADDKM
PURPOSE: ADDS SINGLE KEY CLASS MEMBER(AUC) TO KEY CLASS FOR
 ADD KEY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDKM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ADDKM ADDS A SINGLE KEY CLASS MEMBER (ATTRIBUTE
USE CLASS) TO A KEY CLASS. USED BY ANY COMMANDS
CONTAINING AN ADD KEY CLASS CLAUSE.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
AUC-NAME DSPLY[X(30)]
KC-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]

ROUTINES CALLED:

VTAGAUC
ADDOAC
UERROR
INSKCM

DOCGROUP PS41100 Module Documentation

NAME: ADDMAP
PURPOSE: PROGRAM NAME ADDMAP
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDMAP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CALLED FROM CRTMAP AND ALTMAP, THIS PROGRAM
VALIDATES ALL COMMON PARAMETERS ENTERED FROM
VARIOUS LISTS THEN CALLS SUBPROGRAMS TO ADD
THE MAPPING DEFINITION.

JUNE 1987 - MODIFICATIONS MADE FOR "CREATE
MAP" TO PROCESS ENTITY TO RECORD MAPPINGS.
MAY 1989 - ADDED CALL TO ROUTINE MAPAROJ
FOR RECORD OUTER JOIN (REL 2.7).
-

ARGUMENTS:

MAP-TYPE DSPLY[X]
EC-NO DSPLY[S9(9)]
TAG-NO DSPLY[S9(9)]
RC-NO DSPLY[S9(9)]
PREF-NO DSPLY[S9(9)]
TAG-NAME DSPLY[X(30)]
EC-NAME DSPLY[X(30)]
MAP-CMD DSPLY[X(3)]
MAP-CATEGORY DSPLY[X(8)]
MAP-CLASS DSPLY[X(30)]

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFVAL
CPFNXT
VERHZP
LOWUPP
CHKSTMP
VERAISM
CHKHPRT
VERDFID
VERHPDF
MAPADF
VERDB
FNDASA
VERHPST
MAPASET

CPFONE
CPFCOR
MAPRC
MAPAREC
MAPAROJ
UERROR
EPRPRO

DOCGROUP PS41100 Module Documentation

NAME: ADDMIG
PURPOSE: PROCESS THE ADD MIGRATES...SET..CLAUSE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDMIG
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE "ADD MIGRATES" CLAUSE OF THE CREATE AND ALTER RELATION COMMANDS. MIGRATES THE KEY CLASS FROM THE INDEPENDENT TO THE DEPENDENT ENTITY CLASS. THE MIGRATES CLAUSE IS OPTIONAL. THE CLAUSE CONSISTS OF A KEY-CLASS NAME AND AN OPTIONAL SET CLAUSE.

MODIFIED: 4-24-89

:ADDED FORCE MIGRATION OF PRIMARY KEY IF AVAILABLE

ARGUMENTS:

MODEL-NO	DSPLY[S9(9)]
RC-NO	DSPLY[S9(9)]
IND-EC-NO	DSPLY[S9(9)]
DEP-EC-NO	DSPLY[S9(9)]
COMMAND-TYPE	DSPLY[X(5)]
RETRN-CODE	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
LISTNOS
UNIQENO
RENLIST
ERRPRO

ROUTINES CALLED:

CPHONE
VERKCT
SELECNM
UWARN
VERKC
UERROR
VERRCC
MKRNLST
CKRNLST
VERAUC

GETNNUM
INSAUC
INSIAUC
INSCRC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ADDMIGC
PURPOSE: PROCESS THE MIGRATES...SET..CLAUSE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDMIGC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE "ADD MIGRATES" CLAUSE OF THE CREATE AND ALTER CATEGORY COMMANDS. MIGRATES THE PRIMARY KEY CLASS FROM THE GENERIC TO THE CATEGORY MEMBER ENTITY CLASS. THE CLAUSE CONSISTS OF AN OPTIONAL SET CLAUSE.

ARGUMENTS:

MODEL-NO	DSPLY [S9 (9)]
RC-NO	DSPLY [S9 (9)]
GEN-EC-NO	DSPLY [S9 (9)]
CAT-EC-NO	DSPLY [S9 (9)]
RETRN-CODE	DSPLY [S9 (9)]

INCLUDE FILES:

SRVRET
LISTNOS
UNIQENO
RENLIST
ERRPRO

ROUTINES CALLED:

VERKCT
SELECNM
UERROR
GETNUM
INSKC
MKRNL1
CKRNLST
VERAUC
INSAUC
INSIAUC
INSKCM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ADDNSTD
PURPOSE: ADDS A USER DEFINED DATA TYPE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDNSTD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE ADDS A "USER" DEFINED DATA TYPE

AFTER VERIFYING THAT THE DATA TYPE
TO BE ADDED DOES NOT ALREADY EXIST,
CHECK IF A LEGAL DATA TYPE, WITH
CORRECT DECIMAL SPECIFICATIONS BEFORE
INSERTING, AS A "USER" DEFINED DATA
TYPE.

ARGUMENTS:

DOM-NO	DSPLY[S9(9)]
DATA-TYPE-NAME	DSPLY[X(30)]
TYPE-ID	DSPLY[X]
MAX-SIZE	DSPLY[S9(9)]
NO-OF-DEC	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

ROUTINES CALLED:

VERDT
UERROR
INSDT

DOCGROUP PS41100 Module Documentation

NAME: ADDOAC

PURPOSE: ADD ATTRIBUTE AS AN OWNED ATTRIBUTE AND AS ATT USE
CLASS

LANGUAGE: VAX-11 COBOL

SOURCE FILE: ADDOAC

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

GIVEN AN ATTRIBUTE NAME, ADD IT AS AN OWNED
ATTRIBUTE AND AS AN ATTRIBUTE USE CLASS.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]
AC-NAME DSPLY[X(30)]
NEW-TAG-NO DSPLY[S9(9)]

INCLUDE FILES:

UNIQENO
ERRPRO

ROUTINES CALLED:

VERATT
VEROAC
UERROR
INSOAC
GETNNUM
INSAUC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ADDPARM
PURPOSE: WRITES 78 CHAR NDDL COMMAND WITH PARAMENTERS
CHECKS/DELIMITER
LANGUAGE: VAX-11 COBOL
SOURCEFILE: ADDPARM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

LANGUAGE: VAX-11 COBOL

DESCRIPTION:

FROM CALLS TO SUBPROGRAM ADDPARM.

ARGUMENTS:

TEXT-PARM	DSPLY[X(60)]
DELIMTR	DSPLY[X]

ROUTINES CALLED:

WRTLIN

DOCGROUP PS41100 Module Documentation

NAME: ADDPRMS
PURPOSE: ADD PARAMETERS TO INTERNAL TABLE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDPRMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- OBTAIN PARAMETER NAME AND DATA TYPE NAME
FROM PARSER. VERIFY BOTH AND ADD TO
INTERNAL TABLE.

ARGUMENTS:

MOD-ID	DSPLY[X(10)]
PARM-TABLE	RECRD
NEW-PARM-TABLE	RECRD
NO-OF-PARMS	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
LISTNOS

ROUTINES CALLED:

CPFNXT
UERROR
VERDT

DOCGROUP PS41100 Module Documentation

NAME: ADDSTD

PURPOSE: ADD STANDARD DATA TYPES TO CDM DB.

LANGUAGE: VAX-11 COBOL

SOURCE FILE: ADDSTD

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE ADDS THE"STD" DATA TYPE
FOR A DOMAIN
CLASS.

MODIFIED 8/28/89 TO HANDLE THE V,D, AND M STANDARD DATA TYPES

VERIFY THAT THE DATA TYPE IS DEFINED AS

"STD", THEN MAKE SURE THAT THE DATA-TYPE

NAME TO BE ADDED DOES NOT PREVIOUSLY

EXIST. NOW CHECK IF IT IS A LEGAL TYPE

AND HAS CORRECT DECIMAL SPECIFICATIONS.

NOW INSERT THE DATA TYPE.

ARGUMENTS:

DOM-NO	DSPLY[S9(9)]
DOM-NAME	DSPLY[X(30)]
DATA-TYPE-NAME	DSPLY[X(30)]
TYPE-ID	DSPLY[X]
MAX-SIZE	DSPLY[S9(9)]
NO-OF-DEC	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

ROUTINES CALLED:

VERSDT
UERROR
VERDT
CRTVLRG
INSDT
CRTVMOD

DOCGROUP PS41100 Module Documentation

NAME: ADDUNIN
PURPOSE: ADD ENTITIES TO DEFINE RECORD UNION.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ADDUNIN
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- VERIFY ENTITIES AND DATA FIELDS AND ADD
TO RECORD UNION.

ARGUMENTS:

DB-NAME DSPLY[X(30)]
RT-ID DSPLY[X(30)]
DB-ID DSPLY[S9(9)]
FUNC-TYPE DSPLY[X(5)]
RT-NO DSPLY[S9(9)]

INCLUDE FILES:

CHKCDM
LISTNOS

ROUTINES CALLED:

CPFONE
UERROR
VERECN
CPFVAL
CPFNXT
VERDFID
VERUNIN
VERUDT
INSUNIN

DOCGROUP PS41100 Module Documentation

NAME: ADPARM1

PURPOSE: CREATES 78 CHAR NDDL COMMANDS WITH PARAMETERS AND
DELIMITERS

LANGUAGE: VAX-11 COBOL

SOURCE FILE: ADPARM1

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

Writes a command line if:

- 1) routine is called with delimiter = semicolon
(end of command - next line not indented)
- 2) parameter will not fit on current command line
(next line indented)
- 3) routine is called with parameter and delimiter both blank
- 4) routine is called with delimiter = period
(end of line - next line not indented, delimiter
changed to space)
- 5) routine is called with delimiter = pound sign
(end of line - next line indented, delimiter changed
to space)

Note: April '87 - Delimiter is always appended to the text
being added to the command line. This was originally done to
accommodate both blanks and commas as delimiters.
For rel 2.3, code was added to recognize the pound sign (#)
delimiter.

Note: This routine is merely a copy of "ADDPARM". The
purpose of the copy is to allow multiple commands
to be constructed at the same time.

ARGUMENTS:

TEXT-PARM

DSPLY[X(60)]

DELIMTR

DSPLY[X]

ROUTINES CALLED:

WRTLIN

DESCRIPTION:

ARGUMENTS:

INCLUDE FILES:

ROUTINES CALLED:

3-419

DOCGROUP PS41100 Module Documentation

NAME: ALLDB
PURPOSE: SELECT ALL DATABASES FROM DATA_BASE AND LOAD TABLE
 FOR EACH
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLDB
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ARGUMENTS:

DB-TABLE	RECRD
DESC-FLAG	DSPLY[X]

INCLUDE FILES:

ERRCDM
SRVRET
DBTBL
ERRPRO

ROUTINES CALLED:

GENDB
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLDBMS
PURPOSE: COPY ALL DBMS AND ASSOCIATED HOSTS IN THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLDBMS
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CALLLED FROM CPYDBMS THIS ROUTINE WILL
GENERATE A NDDL 'DEFINE DBMS' COMMAND FOR EACH DBMS.
THEN CALLS "SELHOST" TO DETERMINE
IF ANY ASSOCIATION WITH THE HOST ID IS FOUND IN
THE DBMS_ON_HOST TABLE.

ARGUMENTS:

DESC-FLAG DSPLY[X]
DB-FLAG DSPLY[X]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ADDPARM
SELHOST
UERROR
SELDB
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLDOM
PURPOSE: SELECT ALL DOMAINS FROM THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLDOM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- SELECT DOMAIN NUMBER AND NAME OF ALL DOMAINS
IN THE CDM. FOR EACH DOMAIN RETURNED
CALL "GENDOM" TO GENERATE THE "CREATE DOMAIN"
NDDL COMMAND.

ARGUMENTS:

DESC-FLAG DSPLY[X]
USER-FLAG DSPLY[X]

NCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

GENDOM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLDT
PURPOSE: SELECT ALL DATATYPES FOR A DOMAIN FROM THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLDT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- SELECT ALL META DATA FOR EITHER THE STANDARD
OR USER DATA TYPES FOR A GIVEN DOMAIN,
DEPENDING ON THE INPUT PARAMETER "TYPE-IND".
EITHER GENERATE THE "TYPE" CLAUSE OF THE
"CREATE DOMAIN" NDDL COMMAND OR THE "DESCRIBE"
NDDL COMMAND FOR THE DATATYPE DEPENDING ON
THE INPUT PARAMETER "GEN-TYPE".

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
TYPE-IND DSPLY[X(4)]
GEN-TYPE DSPLY[XXX]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

GENDESC
GENDT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLECRT
PURPOSE: SELECT ALL ENTITY NUMBERS AND NAMES IN CDM AND START
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLECRT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Select all entity numbers and names in
the cdm and for each one selected call
genecrt to start generating entity to
record mappings.

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

GENECRT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLKEY
PURPOSE: GENERATES KEY CLASS FOR AN ENTITY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLKEY
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS THE SHELL ROUTINE TO GENERATE THE KEY CLASS
FOR AN ENTITY.

ARGUMENTS:

DEP-EC-NO	DSPLY[S9(9)]
DEP-EC-NAME	DSPLY[X(30)]
RC-NO	DSPLY[S9(9)]
RC-DEPKC-LIST	RECRD

INCLUDE FILES:

KEYLIST
ECLIST
RCDEPKC
ERRPRO

ROUTINES CALLED:

CHKOWN
GENALT1
CHKINH
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLMENT
PURPOSE: SELECT ALL ENTITIES IN CDM AND START GENERATING
 CREATE MAPS FOR EACH
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLMENT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Select all entities in the cdm and for each one
selected call genment to start generating create
map commands.

ARGUMENTS:

PART-FLAG DSPLY[X]
UNION-FLAG DSPLY[X]
MOD-TABLE RECRD
UNION-TABLE RECRD

INCLUDE FILES:

ERRCDM
SRVRET
MDTBL
UNTBL
ERRPRO

ROUTINES CALLED:

GENMENT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLMREC
PURPOSE: SELECTS ALL DATABASE/RECORD MAPS TO BE COPIED
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLMREC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

ARGUMENTS:

PART-FLAG	DSPLY[X]
UNION-FLAG	DSPLY[X]
MOD-TABLE	RECRD
HP-TABLE	RECRD

INCLUDE FILES:

ERRCDM
SRVRET
MDTBL
HPTBL
ERRPRO

ROUTINES CALLED:

GENMAP
GENCRPT
GENCRUN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLMROJ
PURPOSE: GENERATE CREATE MAP COMMANDS FOR RECORD OUTER JOIN
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLMROJ
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

INCLUDE FILES:

ERRCDM
ADDPARM
ERRPRO

ROUTINES CALLED:

SELECNM
ADDPARM
SELDBRT
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLREC
PURPOSE: SELECT ALL RECORDS OF A DB AND CALL GENREC FOR EACH
RECORD SELECTED
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLREC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine will select all records associated with a particular database. It is called by CPYREC and CPYDB (copy database). For each record selected it calls GENREC to generate DEFINE RECORD commands

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
DBMS-NAME	DSPLY[X(30)]
DESC-FLAG	DSPLY[X]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

GENREC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLREL
PURPOSE: ALLREL: FOR EACH LEVEL OF RELATIONS IN FROM-MODEL
 GENERATE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLREL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

ARGUMENTS:

MODEL-NO	DSPLY[S9(9)]
MODEL-NAME	DSPLY[X(30)]
KEYWORD-FLAG	DSPLY[9]
DESC-FLAG	DSPLY[9]
RC-DEPKC-LIST	RECRD
RETURN-STATUS	DSPLY[9(9)]

INCLUDE FILES:

ERRCDM
EOD
DEPECL
RCDEPKC
ERRPRO

ROUTINES CALLED:

BLRCKC
MODRELA
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLRNG
PURPOSE: SELECT ALL RANGES OF A DOMAIN
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLRNG
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- SELECT THE RANGES FOR A DOMAIN AND
GENERATE THE "RANGE" CLAUSE OF THE
"CREATE DOMAIN" NDDL STATEMENT

ARGUMENTS:

DOM-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLSET
PURPOSE: SELECT ALL SETS FROM THE CDM FOR A DB-ID
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLSET
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- SELECT META DATA OF ALL SETS FOR A SPECIFIED DATA BASE IN THE CDM. FOR EACH SET RETURNED CALL "GENSET" TO GENERATE THE "DEFINE SET" NDDL COMMAND.

ARGUMENTS:

```
DB-ID                      DSPLY[S9(9)]
DBMS-NAME                  DSPLY[X(30)]
DB-NAME                    DSPLY[X(30)]
DESC-FLAG                  DSPLY[X]
```

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

GENSET
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALLVIEW
PURPOSE: CREATE AN ES-CS-MAPPING FOR AUC TO DATA ITEM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALLVIEW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ALLVIEW CREATES THE ES TO CS MAPPING
WHEN THE USER WISHES TO MAP EACH
ATTRIBUTE USE CLASS OF
AN ENTITY CLASS TO DATA ITEMS IN THE VIEW. DATA
ITEM ARE STORED USING THE SAME NAME AS THE TAG
(ATTRIBUTE USE CLASS).

EXECUTE AN NDML SELECT TO RETRIEVE ALL
THE ATTRIBUTE USE CLASSES FOR AN ENTITY
CLASS. FOR EACH AUC RETRIEVED, GET
THE DATA-TYPE-NAME FOR THE DOMAIN, THEN
CREATE A NEW DATA_ITEM AND PROJECT_DATA_ITEM
OCCURRENCE.

ARGUMENTS:

VIEW-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

SRVRET
UNIQENO
ERRCDM
ERRPRO

ROUTINES CALLED:

VERSDT
UERROR
GETNNUM
INSDI
INSPDI
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALMROJC
PURPOSE: GENERATE CREATE MAP COMMANDS FOR RECORD OUTER JOIN
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALMROJC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

INCLUDE FILES:

ERRCDM
ADDPARM
ERRPRO

ROUTINES CALLED:

ADDPARM
SELDBRT
UERROR
ERRPRO

DESCRIPTION:

ARGUMENTS:

INCLUDE FILES:

ROUTINES CALLED:

3-436

DOCGROUP PS41100 Module Documentation

NAME: ALTAISM
PURPOSE: PROGRAM NAME ALTAISM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTAISM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CHANGE AN AUC MAPPING PREFERENCE
IN THE CDM.

ARGUMENTS:

TAG-NO DSPLY[S9(9)]
PREF1-NO DSPLY[S9(9)]
PREF2-NO DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
CHKCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Rule Documentation

NAME: ALTCAT
PURPOSE: CONTROLS PROCESSING LOGIC FOR THE ALTER CATEGORY
RELATION COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTCAT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE PROCESSING LOGIC FOR THE ALTER CATEGORY
RELATION COMMAND.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
RTN-STATUS DSPLY[X(5)]

INCLUDE FILES:

LISTNOS
CHKMODL

ROUTINES CALLED:

UERROR
CPFONE
CPFNXT
VERENT
VERCR
UPDTCR
ADDKW
DRPKW
SELCATC
SELCATM
DELMTKC
SELCRAD
VERVAL
VERCMU
VERCMSV
INSCATM
ADDMIGC
VERRCC
DELCIA
DELCM1
DELCR
DELCRC

DOCGROUP PS41100 Module Documentation

NAME: ALTCODL
PURPOSE: PROCESSES THE DBMS'S VAX-11 IDMS IDS-II FOR ALTER DB
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTCODL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

PROCESSES THE DBMS'S : VAX-11, IDS-II, AND IDMS FOR
ALTERING THE DATA BASE DEFINITION.
Obtain the schema and subschema name if any and update the
db id, schema, and subschema in CDM. Obtain the data base
location if any and update the CDM. For each area to be added
after the area has been verified as not existed insert the db
id
and area name in the CDM. Repeat for all areas to be added. For
each area to be dropped after the area has been verified as
existing, delete the db id and area name from the CDM.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
CPFNXT
MODSCH
UERROR
MODLOC
VERARL
VERAREA
INSAREA
DELAREA
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTDB
PURPOSE: CONTROLLING MODULE FOR ALTERING A DATABASE
 DEFINITION.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTDB
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- ?

-
EXTRACT THE DATA BASE NAME FROM THE PARSER LIST. EXTRACT
THE HOST ID, NUL VALUE, AND NTM DIRECTORY FROM LISTS IF
IF THEY ARE THERE.
AFTER VERIFYING THAT THE DATA BASE EXISTS MODIFY THE HOST,
NULL VALUE, NTM DIRECTORY OR ALL 3 FOR THE NAMED DATA BASE.
PROCESS THE DBMS NAME DEPENDING ON WHETHER IT IS TOTAL, IMS,
ORACLE, IDS-II, IDMS, OR VAX-11.

INCLUDE FILES:

LISTNOS
ERRCDM
UNIQENO
ERRPRO

ROUTINES CALLED:

CPFONE
VERDBAL
UERROR
VERHST
MODDBAL
ALTCODL
ALTORCL
ALTIMS
CHGLOBL
UWARN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTDBMS
PURPOSE: ADD OR DROP HOST ASSOCIATED WITH DBMS OR CHANGE MODEL
 TYPE OF DBMS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTDBMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

:- ALLOWS USER TO ADD AND DELETE HOST
ASSOCIATIONS WITH A DBMS. ALSO ALLOWS
THE DBMS MODEL TYPE TO BE CHANGED.
ALTDBMS SETS UP AND CALLS INSDBH TO
INSERT HOST / DBMS ASSOCIATION IN THE
DBMS ON HOST TABLE. THEN SETS UP AND
CALLS DELDBH TO DELETE HOST / DBMS
ASSOCIATION IN THE DBMS ON HOST TABLE.
VERDBMS AND VERHST ARE CALLED TO VERIFY
THAT THE HOST AND DBMS ARE DEFINED.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
UERROR
VERDBMS
UWARN
ALTDDBT
VERHST
INSDBH
CPFNXT
VERDBH
DELDDBH
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTDBT

PURPOSE: PRODUCES AN NDML STATEMENT TO CHANGE THE DB_MODEL IN
THE DBMS TABLE.

LANGUAGE: VAX-11 COBOL

SOURCE FILE: ALTDBT

SOURCE FILE TYPE: PRC

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

- PRODUCES A MODIFY NDML STATEMENT TO
CHANGE THE DB_MODEL IN THE DBMS TABLE.

ARGUMENTS:

DBMS-NAME

DSPLY[X(30)]

DB-MODEL

DSPLY[X]

RET-STATUS

DSPLY[X(5)]

INCLUDE FILES:

ERRCDM

ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTDOM
PURPOSE: ALTER A DOMAIN
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTDOM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THE ALTER DOMAIN COMMAND OBTAINS A DOMAIN NAME,
THEN CALLS THE CLAUSE PROCESSORS TO DROP DATA
TYPES ADD DATA TYPES AND ALTER DATA TYPES.

FIRST OBTAIN DOMAIN NAME AND VERIFY THAT
IT DOES EXIST. USING THE DOMAIN NUMBER
DROP, ADD AND ALTER DATA TYPE.

INCLUDE FILES:

LISTNOS

ROUTINES CALLED:

CPFONE
VERDOM
UERROR
PROCDT
ALTVLRG

DOCGROUP PS41100 Module Documentation

NAME: ALTDT
PURPOSE: ALTER DATA TYPES
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTDT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS CLAUSE WILL ALTER THE DATA TYPE GIVEN THE
DOMAIN NUMBER

MODIFIED 8/9/89 LOGIC WAS ADDED TO HANDLE THE NEW DATA TYPES
(V,D,M)

GIVEN THE DOMAIN NUMBER, EXTRACT THE
DATA TYPE NAME, ID, TYPE-SIZE FOR A DATA
TYPE. VERIFY IF IT IS STANDARD OR USER
DEFINED TYPE AND THAT THE TYPE EXISTS.
IF IT DOES, UPDATE THE DATA TYPE, AND
FETCH THE NEXT RECORD TO BE UPDATED.

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
DATA-TYPE-NAME DSPLY[X(30)]
TYPE-ID DSPLY[X]
MAX-SIZE DSPLY[S9(9)]
NO-OF-DEC DSPLY[S9(9)]
STD-USER DSPLY[X(4)]

INCLUDE FILES:

ERRCDM

ROUTINES CALLED:

VERDTD
UERROR
VERSDT
UPDIND
RETDT
UPDTDT

DESCRIPTION:

ARGUMENTS:

INCLUDE FILES:

ROUTINES CALLED:

3-447

DESCRIPTION:

MODIFIED 5/10/89: TO HANDLE KC-TYPE CHANGES
- THIS ROUTINE WILL OBTAIN THE KEY CLASS TO
BE ALTERED AND MAKE THE APROPRIATE CALLS TO
EXTERNAL ROUTINES THE WILL DO THE ACTUAL
ALTERATIONS.

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERKRC
UERROR
VERKCT1
VERKCT
CHKCAT
UPDKCT
MODKCNM
KEYADS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTFLDS
PURPOSE: *****
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTFLDS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

12/18/89 - ADDED "H" (FOR OVERPUNCHED) TO VALID CODASYL
DATATYPES.

INCLUDE FILES:

LISTNOS
ERRCDM
UNIQENO
DFTBL
TDFTBL
ERRPRO

ROUTINES CALLED:

GETRDH
UERROR
VERRT
RETRFLD
CPFONE
CONVCPF
LOWUPP
VERDTYP
FLDSEMS
UWARN
GETNNUM
INSTFLD
MODYFLD
DELFLDS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTHST
PURPOSE: ADD OR DROP DBMS ASSOCIATIONS WITH A HOST
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTHST
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

:- ALLOWS USER TO ADD AND DELETE DBMS
ASSOCIATIONS WITH A HOST. ALTHST
SETS UP AND CALLS INSDBH TO INSERT
DBMS / HOST ASSOCIATION IN THE
DBMS ON HOST TABLE. THEN SETS UP AND
CALLS DELDBH TO DELETE DBMS / HOST
ASSOCIATION IN THE DBMS ON HOST TABLE.
VERDBMS AND VERHST ARE CALLED TO VERIFY
THAT THE DBMS AND HOST ARE DEFINED.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERHST
UERROR
VERDBMS
INSDBH
CPFNXT
VERDBH
DELDDBH
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTIMS
PURPOSE: PROCESSES DBMS: IMS FOR ALTERING A DATABASE
 DEFINITION
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTIMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

PROCESSES THE DBMS : IMS FOR THE ALTERING OF AN
IMS DATABASE
Obtain the psb name, psb sequence number, and key feedback
length from parser lists if any. Then update the psb name,
psb sequence number, and key feedback length for the specified
data base name.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
CPFNXT
MODPCB
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTMAP
PURPOSE: PROGRAM NAME ALTMAP
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTMAP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- ALTMAP IS THE COMMAND PROCESSOR FOR THE
ALTER MAP COMMAND. IT VALIDATES CERTAIN
COMMON PARAMETERS AND THEN CALLS SUBPROGRAMS
DEPENDING ON WHETHER THE ALTER ADD, ALTER DROP
OR ALTER ALTER FUNCTIONS ARE TO BE PERFORMED.
IT ALSO ALLOWS MAPPING PREFERENCE NUMBERS
TO BE REASSIGNED NEW VALUES.

MODIFIED 5/1/89: TO HANDLE CATEGORY RELATIONS
-

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERENT
UERROR
CPFNXT
VERAUC
VERCR
VERROJ
VERHZP
CONVCPF
SELAISM
LOWUPP
MODAISM
VERRULE
UPDRULE
ALTAISM
VERLR
ADDMAP
DRPSMAP
ALTSMAP
VERAISM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTMOD
PURPOSE: CONTROLS PROCESSING FOR ALTER MODEL COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THE ALTER MODEL COMMAND PROCESSOR WILL CONTROL
THE PROCESSING LOGIC OF ALTERING A MODEL WITH-
IN THE SYSTEM.

ARGUMENTS:

CURRENT-MODEL-NO DSPLY[S9(9)]
CUR-MOD-NAME DSPLY[X(30)]

INCLUDE FILES:

UNIQENO
LISTNOS

ROUTINES CALLED:

CPFONE
VERMOD
UERROR
UPDMOD
UWARN

DOCGROUP PS41100 Module Documentation

NAME: ALTORCL
PURPOSE: PROCESSES THE DBMS: ORACLE FOR ALTERING A DATA BASE
DEFINITION
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTORCL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

THIS ROUTINE PROCESSES THE DBMS ORACLE FOR THE
ALTERING OF DATA BASE DEFINITION.
Extract the password from the parser list the update the
db id and the oracle password in the CDM.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
MODPWRD
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTPART
PURPOSE: ALTER A HORIZONTAL PARTITION OF AN ENTITY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTPART
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- ALTERS A HORIZONTAL PARTITION OF AN ENTITY
EITHER ADDING OR DROPPING RECORD TYPES AT USER'S REQUEST

- VERIFIES THAT THE PARTITION AND
ENTITY EXISTS, VERIFIES THAT RECORDS
TO BE ADDED DO NOT EXIST, VERIFIES
THAT RECORDS TO BE DROPPED DO EXIST,
DROPS OR ADDS RECORDS AS PER USER
REQUEST, THEN CHECKS TO BE SURE
THAT AT LEAST 2 DATA BASE/RECORD
TYPE PARTITIONS EXIST ON THE CDM.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

HPNLOOK
UERROR
CPFONE
VALDROP
VERDBRT
VERPART
INSPART
CPFNXT
VERHPN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTPSB
PURPOSE: PROGRAM NAME ALTPSB
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTPSB
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CHANGE A PSB NAME / HOSTID
ASSOCIATION IN THE PSB TABLE

-

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERPSB
UERROR
VERHST
VERDBH
UPD1PSB
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTREC
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR ALTERING A RECORD
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTREC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC FOR ALTERING
A RECORD BY ADDING OR DROPPING AREAS AND/OR FIELDS OF A
RECORD .
AFTER EXTRACTING THE DB-ID AND RT-ID, VERIFY THAT THE RECORD
TYPE DID PREVIOUSLY EXIST. IF IT DID, PROCESS THE
AREA INFORMATION AND FIELD INFORMATION.

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

GETRDH
UERROR
VERRT
CPFONE
LOWUPP
CPFNXT
VERDBAA
DRPFLD
ADDFLDS
VERAREA
INSDAA
DELAAA
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTREL
PURPOSE: CONTROLS PROCESSING LOGIC FOR THE ALTER RELATION
COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTREL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE PROCESSING LOGIC FOR THE ALTER
RELATION COMMAND.

MODIFIED: 25-APR-89
DROPPED CALL TO VERREL AND ADD IT BACK BY ITS PARTS
CHANGES REQUIRED BECAUSE OF LINK AND CATEGORY RELATIONS

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
CHKMODL

ROUTINES CALLED:

UERROR
CPFONE
CPFNXT
VERENT
VERLR
GETCARD
ALTCARD
UPDTRC
ADDMIG
ADDKW
DRPMIG
DRPKW
DELMTC

DOCGROUP PS41100 Module Documentation

NAME: ALTSMAP
PURPOSE: PROGRAM ALTSMAP
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTSMAP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CALLED FROM ALTMAP, THIS PROGRAM WILL
CHANGE THE VALUES FOR AN EXISTING AUC
TO SET MAPPING IN THE CDM.
-

ARGUMENTS:

TAG-NO DSPLY[S9(9)]
HZ-PART-FLAG DSPLY[X]
PREF-NO DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

VERAISM
UERROR
CPFNXT
CPFVAL
VERDB
FNDASM
VERSMS
VERRT
CHKAUCV
UPDAUCS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTSMOD
PURPOSE: ALTER SOFTWARE MODULE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTSMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CHANGE LANG-NAME AND/OR LATEST-REV-DATE
IN SOFTWARE MODULE TABLE. ADD OR DROP
ASSOCIATED PARAMETERS IN MODULE_PARAMETER
TABLE.

INCLUDE FILES:

ERRCDM
LISTNOS

ROUTINES CALLED:

CPFONE
VERSMOD
UERROR
UPDSMOD
DRPARMS
LOWUPP
SELPARM
PROCPRM
DELPARM
INSPARM

DOCGROUP PS41100 Module Documentation

NAME: ALTTAG
PURPOSE: RENAME A TAG IN AN ENTITY FROM THE ALTER ENTITY COM.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTTAG
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS MODULE WILL RENAME A TAG IN AN ENTITY
SPECIFIED IN THE NDDL COMMAND ALTER ENTITY.

- THIS ROUTINE WILL RENAME THE A TAG IN AN
ENTITY AFTER CHECKING TO SEE THAT THE
TAG EXISTS AND THAT THE NEW TAG DOES NOT
ALREADY EXIST IN THE ENTITY.

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERATAG
MODAAUC
UERROR
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ALTUNIN
PURPOSE: ALTER RECORD UNION.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTUNIN
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- ALTER A RECORD UNION DEFINITION BY
DROPPING AND ADDING ENTITIES.

INCLUDE FILES:

CHKCDM
LISTNOS

ROUTINES CALLED:

DBLOOK
CPFONE
ADDUNIN
SELURT
UERROR
VERECN
SELUNIN
DELUNIN
CPFNXT
DEL1ERT
ECRTALL
DRPRULE

DESCRIPTION:

ARGUMENTS :

INCLUDE FILES:

ROUTINES CALLED:

3-463

DOCGROUP PS41100 Module Documentation

NAME: ALTVMOD
PURPOSE: RECREATE VERIFICATION MODULE FOR DOMAIN VALUES &
RANGES
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ALTVMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- RECREATES VERIFICATION MODULE FROM VALUES AND RANGES UPDATED IN THE "ALTER DOMAIN" STATEMENT. THE VALUES AND RANGES ARE RETRIEVED FROM THE CDM DATABASE AFTER THEY HAVE BEEN ALTERED.

MODIFIED MAR 16, 1988 TO SUPPORT FIOP'S

ARGUMENTS:

```

DOM-NO          DSPLY[S9(9)]
DOM-NAME        DSPLY[X(30)]
TYPE-ID         DSPLY[X]
MAX-SIZE        DSPLY[S9(9)]
NO-OF-DEC       DSPLY[S9(9)]

```

INCLUDE FILES:

LISTNOS
CHKCDM
ERRCDM
MACDAT
SBSTLST
ERRFS
ERRPRO

ROUTINES CALLED:

```
CHKVAL
UERROR
CHKRNG
RETVMOD
VERFJOB
UWARN
INSSMOD
INSVMOD
VMODPRM
DRPVMOD
DELPARM
DELSMOD
CDMACRX
OUTFIL
CLSFIL
ERRPRO
```


DOCGROUP PS41100 Module Documentation

NAME: AOACHK
PURPOSE: DETERMINE CASES WHERE ATTRIBUTE OWNERSHIP CAN'T BE
 ALTERED
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOACHK
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- AOACHK DETERMINES ALL CASES WHERE AN
ATTRIBUTE OWNERSHIP CANNOT BE ALTERED. OWNERSHIP MAY NOT BE
ALTERED WHERE:
A) A DEPENDENCY LOOP OCCURS
B) IF OLD OWNER ENTITY MIGRATES MULTIPLE TIMES TO THE
NEW OWNER ENTITY, ONLY ONE OF THESE INHERITED
ATTRIBUTES MAY BE KEY IN THE NEW OWNER. THE
NDDL PROCESSOR DOES NOT KNOW WHICH KEY MIGRATIONS
TO DROP AND WHICH TO RETAIN. THE MODELLER IS
REQUIRED TO MAKE THIS DECISION BEFORE ALTERING
THE ATTRIBUTE'S OWNERSHIP.
C) IF THE MIGRATION IS THRU A CATEGORY, CANNOT ALTER KEYS
INVOLVING CATEGORY RELATIONS
D) IF ATTRIBUTE IS A DISCRIMINATOR IN A CATEGORY,
CANNOT ALTER OWNERSHIP

ARGUMENTS:

LINK-OLD-MIG-TO-NEW-COUNTER DSPLY[S9(9)]
CAT-OLD-MIG-TO-NEW-COUNTER DSPLY[S9(9)]
LINK-NEW-BACK-TO-OLD-COUNTER DSPLY[S9(9)]
CAT-NEW-BACK-TO-OLD-COUNTER DSPLY[S9(9)]
OLD-TAG-MIGRATION-TBL RECRD
EC-NO-OLD DSPLY[S9(9)]
EC-NO-NEW DSPLY[S9(9)]
TAG-NO-OLD DSPLY[S9(9)]
KEY-FOUND-IN-OLD-OWNER-FLAG DSPLY[X]
ERROR-FLAG DSPLY[X]

INCLUDE FILES:

CHKCDM
ERRCDM
OLDTAGT
ERRPRO

ROUTINES CALLED:

UERROR
AOACREC
AOACTAG
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOACOPR
PURPOSE: Coordinate the entity processing of ownership clause
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOACOPR
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Coordinate the entity processing portion
of the ownership to entity clause.

MODIFIED 6/26/89: TO HANDLE CATEGORY AND LINK RELATIONS

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
AC-NAME-OLD DSPLY[X(30)]
AC-NO-OLD DSPLY[S9(9)]
EC-NO-NEW DSPLY[S9(9)]
KEY-FOUND-IN-NEW-OWNER-FLAG DSPLY[X]
KEY-FOUND-IN-OLD-OWNER-FLAG DSPLY[X]
LINK-MIG-BACK-COUNTER DSPLY[S9(9)]
CAT-MIG-BACK-COUNTER DSPLY[S9(9)]
LINK-MIG-COUNTER DSPLY[S9(9)]
CAT-MIG-COUNTER DSPLY[S9(9)]
EC-NO-OLD DSPLY[S9(9)]
TAG-NAME-OLD DSPLY[X(30)]
TAG-NO-OLD DSPLY[S9(9)]
OLD-TAG-MIGRATION-TBL RECRD
ERROR-FLAG DSPLY[X]
RET-STATSS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
OLDTAGT
ERRPRO

ROUTINES CALLED:

RETATTR
VERKCM
SELRELC
SELRELL
OLDTAGM
AOACHK
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOACREC
PURPOSE: SELECT THE CATEGORY RELATION NUMBER THAT AN ENTITY IS
PART OF
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOACREC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS SELECTS THE CATEGORY RELATION NUMBER THAT
AN ENTITY IS PART OF WHETHER IT BE AS THE GENERIC
OR CATEGORY MEMBER. IF RC-NO IS GREATER THAN ZERO
THIS MEANS THAT THE OWNERSHIP CLAUSE IN ALTER ATTRIBUTE
WILL BE INVALID.

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
RC-COUNTER	DSPLY[S9(9)]
RTN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOACTAG

PURPOSE: CHECKS TO SEE IF OLD TAG NO IS A DISCRIMINATOR FOR
CATEGORY RELAITON

LANGUAGE: VAX-11 COBOL

SOURCE FILE: AOACTAG

SOURCE FILE TYPE: PRC

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

IF OLD-TAG-NO IS A DISCRIMINATOR FOR A CATEGORY RELATION
THEN ALTER ATTRIBUTE OWNERSHIP CLAUSE IS INVALID.

ARGUMENTS:

TAG-NO-OLD DSPLY[S9(9)]
RC-COUNTER DSPLY[S9(9)]
RTN-STATUS DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOADPM

PURPOSE: Determines preservation of key migrations.

LANGUAGE: VAX-11 COBOL

SOURCE FILE: AOADPM

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine determines whether key migrations need to be preserved and preserves them, else if there is no relation between old and new owner or vice versa, all migrations of the old owner can be deleted.
-

ARGUMENTS:

MIGRATES-COUNTER DSPLY[S9(9)]
TAG-NO-OLD DSPLY[S9(9)]
KC-NAME-LST DSPLY[X(30)]
KEY-FOUND-IN-NEW-OWNER-FLAG DSPLY[X]
OLD-TAG-MIGRATION-TBL RECRD
EC-NO-NEW DSPLY[S9(9)]
KC-NO-NEW DSPLY[S9(9)]
KCM-TAG-NO DSPLY[S9(9)]
MIGRATIONS-PRESERVED DSPLY[X]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
OLDTAGT
ERRPRO

ROUTINES CALLED:

PRESMIG
DELCMT
UWARN
DELMIGK
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOAEEVAL
PURPOSE: Evaluates attribute ownership clause
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOAEEVAL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Evaluates attribute ownership clause.

MODIFIED 6/28/89: TO HANDLE BOTH CATEGORY AND LINK RELATIONS

-

ARGUMENTS:

MODEL-NO	DSPLY[S9(9)]
AC-NAME-OLD	DSPLY[X(30)]
AC-NO-OLD	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
KCNAMET
NEWTAGT
OLDTAGT
ERRPRO

ROUTINES CALLED:

CPFONE
VERENT
AOACOPR
CPFCOR
AOACREC
UERROR
AOAKC
AOADPM
AOAMGDP
UPDAUCE
AOAPICR
INSKCM
CPFNXT
MODACEC
DELMTKC
UWARN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOAGAI

PURPOSE: Creates attribute use and inherited use occurrences

LANGUAGE: VAX-11 COBOL

SOURCE FILE: AOAGAI

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine will create attribute_use_class
and inherited attribute_use_class occurrences.
-

ARGUMENTS:

TAG-NAME-WS DSPLY[X(30)]
EC-NO-WS DSPLY[S9(9)]
AC-NO-OLD DSPLY[S9(9)]
KC-NO-NEW DSPLY[S9(9)]
KCM-TAG-NO DSPLY[S9(9)]
RC-NO-WS DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
UNIQENO
ERRPRO

ROUTINES CALLED:

GETNNUM
INSAUC
UERROR
INSIAUC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOAKC
PURPOSE: ESTABLISH KEY CLASS FOR NEW OWNER ENTITY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOAKC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- AOAKC ESTABLISHES THE KEY CLASS FOR THE NEW OWNER ENTITY. IF A NEW KEY IS SPECIFIED, INSERT AN OCCURRENCE IN CDM TABLE KEY_CLASS. IF AN EXISTING KEY IS SPECIFIED, RETRIEVE ALL MIGRATIONS TO EACH OF ITS DEPENDENT ENTITIES.

ARGUMENTS:

KC-NAME-LST	DSPLY[X(30)]
KEY-PROCESSED-TBL	RECRD
EC-NO-NEW	DSPLY[S9(9)]
NEW-TAG-MIGRATION-TBL	RECRD
KC-NO-NEW	DSPLY[S9(9)]
ERROR-FLAG	DSPLY[X]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

UNIQENO
CHKCDM
ERRCDM
KCNAMET
NEWTAGT
ERRPRO

ROUTINES CALLED:

UERROR
VERKC
VERKCT
GETNNUM
INSKC
NEWTAGM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOAMGDP
PURPOSE: Migrate new owner's key to all dependent entities
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOAMGDP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Uses the table NEW_TAG_MIGRATION_TBL,
which contains migration information of the key class
specified by the user for the new owner entity, create
attribute use and inherited attribute use occurrences for the
attribute whose ownership is being altered, and being
placed as key in the new owner.

ARGUMENTS:

FIRST-TIME-FLAG DSPLY[S9(9)]
RC-NAME-LST DSPLY[X(30)]
MIG-BACK-COUNTER DSPLY[S9(9)]
EC-NO-OLD DSPLY[S9(9)]
NEW-TAG-MIGRATION-TBL RECRD
EC-NO-NEW DSPLY[S9(9)]
KC-NO-NEW DSPLY[S9(9)]
AC-NO-OLD DSPLY[S9(9)]
TAG-NO-OLD DSPLY[S9(9)]
TAG-NAME-OLD DSPLY[X(30)]
KCM-CREATED DSPLY[X]
SUFFIX DSPLY[S99]
ERROR-FLAG DSPLY[X]
KCM-TAG-NO DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
UNIQENO
NEWTAGT
ERRPRO

ROUTINES CALLED:

INSIAUC
VERATAG
AOAGAI
INSKCM
GETNNUM
INSAUC
UPDAUCE
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: AOAPICR
PURPOSE: New owner entity's new key migrates back to old
LANGUAGE: VAX-11 COBOL
SOURCE FILE: AOAPICR
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine handles the case where the
new owner entity's new key can migrate back to the old
owner entity. Then process the incomplete relations.
MODIFIED 7/18/89 : CHANGED CALL TO VERRC TO VERLR

ARGUMENTS:

RC-NAME-LST DSPLY[X(30)]
KC-NO-NEW DSPLY[S9(9)]
TAG-NO-OLD DSPLY[S9(9)]
EC-NO-NEW DSPLY[S9(9)]
EC-NO-OLD DSPLY[S9(9)]
KCM-TAG-NO DSPLY[S9(9)]
TAG-NAME-OLD DSPLY[X(30)]
AC-NO-OLD DSPLY[S9(9)]
FIRST-TIME-FLAG DSPLY[S9(9)]
SUFFIX DSPLY[S99]
KCM-CREATED DSPLY[X]
ERROR-FLAG DSPLY[X]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
UNIQENO
ERRPRO

ROUTINES CALLED:

VERLR
VERIREL
INSCRC
GETNNUM
INSAUC
INSIAUC
INSKCM
VERATAG
AOAGAI
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: ATTKW
PURPOSE: CONTROLS PROCESSING TO POPULATE KEYWORD TABLE FOR AUC
KEYWORD
LANGUAGE: VAX-11 COBOL
SOURCE FILE: ATTKW
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC TO POPULATE A
KEYWORD TABLE WITH ATTRIBUTE CLASS KEYWORDS OF ONE MODEL,
THEN SEARCHES THIS TABLE FOR MATCHES FROM THE SECOND MODEL.

ARGUMENTS:

MOD-NO1	DSPLY[S9(9)]
MOD-NO2	DSPLY[S9(9)]
MOD-NAME1	DSPLY[X(30)]
MOD-NAME2	DSPLY[X(30)]

INCLUDE FILES:

KWDTBL
ERRPRO

ROUTINES CALLED:

RETACKW
RACKW2
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: BLDATT
PURPOSE: CREATE ATT CLASS AND ATT NAME FOR A MODEL(CREATE/COPY
ATT)
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLDATT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

BLDATT CREATES AN ATTRIBUTE CLASS AND ATTRIBUTE
CLASS NAME OCCURENCE FOR A MODEL. BLDATT IS
USED BY BOTH THE CREATE ATTRIBUTE AND THE COPY
ATTRIBUTE COMMAND PROCESSORS

ARGUMENTS:

AC-NAME DSPLY[X(30)]
MODEL-NO DSPLY[S9(9)]
DOM-NO DSPLY[S9(9)]
NEW-AC-NO DSPLY[S9(9)]

INCLUDE FILES:

UNIQENO

ROUTINES CALLED:

VERATT
UERROR
GETNNUM
INSAC

DOCGROUP PS41100 Module Documentation

NAME: BLDATT1
PURPOSE: CREATES AN ATTRIBUTE AND ITS KEYWORDS, ALIAS AND
 DESCRIPTIONS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLDATT1
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

BLDATT CREATES AN ATTRIBUTE CLASS AND ATTRIBUTE
CLASS NAME OCCURENCE FOR A MODEL.
ALSO COPIES ITS ALIASES, DESCRIPTIONS AND
KEYWORDS UNLESS EXCEPTED.

ARGUMENTS:

AC-NAME DSPLY[X(30)]
MODEL-NO DSPLY[S9(9)]
OLD-AC-NO DSPLY[S9(9)]
DOM-NO DSPLY[S9(9)]
NEW-AC-NO DSPLY[S9(9)]
KW-FLAG DSPLY[9]
ALIAS-FLAG DSPLY[9]
DESC-FLAG DSPLY[9]

INCLUDE FILES:

UNIQENO

ROUTINES CALLED:

VERATT
UWARN
GETNNUM
UERROR
INSAC
INSACNM
WRTALI
WRTACKW
WRTDESC

DOCGROUP PS41100 Module Documentation

NAME: BLDRCEC
PURPOSE: RETREIVE ALL SUB-ENTITIES OF A STRUCTURE INTO A TABLE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLDRCEC
SOURCE FILE TYPE: PCO
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE ASSUMES THE RDL-DEPKC-TABLE HAS BEEN INITIALIZED.

ALL THE ENTITIES BELONGING IN THE STRUCTURE
ARE RETRIEVED INTO THE TABLE.

- REPLACE ORACLE STRUCTURED TREE QUERY WITH
ITERATIVE FETCH PROCESS FOLLOWED BY A SORT INTO
HIERARCHICAL ORDER. ALTHOUGH FOR THE GE REHOST
TO INGRES, IT MAKES THE ROUTINE SQL-STANDARD.

ARGUMENTS:

FROM-EC-NO	DSPLY[S9(9)]
RC-DEPKC-LIST	RECRD
DEP-EC-LIST	RECRD
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
EOD
RCDEPKC
DEPECL
ERRPRO

ROUTINES CALLED:

FNDRClE
UERROR
SQLSCA
SQLBS1
SQLSCH
SQLSCC
SQLTOC
SQLOSQ
SQLADR
SQLAB1
SQLEXE
SQLCLS
SQLAD1
SQLFCH
FNDEC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: BLKCL1
PURPOSE: STORE ALL KEY CLASS INFO FOR AN ENTITY IN A LIST
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLKCL1
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CREATES A KEY-CLASS-LIST TABLE CONTAINING THE
KEY CLASS NUMBERS. KEY CLASS NAMES, KEY CLASS MEMBER TAG
NUMBER AND TAG NAMES FOR A GIVEN ENTITY.

ARGUMENTS:

MOD-NO	DSPLY[S9(9)]
EC-NO	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

AKCROW
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: BLKCLST

PURPOSE: SELECT AND STORE KEY CLASS INFO FOR A GIVEN ENTITY

LANGUAGE: VAX-11 COBOL

SOURCE FILE: BLKCLST

SOURCE FILE TYPE: PRC

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

SELECTS THE KEY CLASSES AND KEY CLASS MEMBERS FOR EACH ENTITY
IN THE FROM-MODEL AND CALLS A ROUTINE TO BUILD THE UNBOUNDED
KEY-CLASS-LIST STRUCTURE.

ARGUMENTS:

FROM-MOD-NO

DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

AKCROW
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: BLRCKC
PURPOSE: POPULATE THE RC-DEPKC-LIST TABLE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLRCKC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

FOR EACH LEVEL OF RELATIONS IN FROM-MODEL FIND
THE KEY CLASSES FOR THE DEPENDENT ENTITY WHICH
CONTAIN ATTRIBUTES INHERITED VIA THE RELATION
AND CALL ROUTINES TO POPULATE THE RC-DEPKC-LIST
TABLE.

MODIFIED 9/19/89: TO HANDLE CATEGORY RELATIONS AND NEW
RC-DEPKC-LIST TABLE

ARGUMENTS:

MODEL-NO	DSPLY[S9(9)]
MODEL-NAME	DSPLY[X(30)]
RC-DEPKC-LIST	
DEP-EC-LIST	
RET-STATUS	

INCLUDE FILES:

KEYLIST
ERRCDM
RCDEPKC
DEPECL
ERRPRO

ROUTINES CALLED:

INITRDL
STARTBL
SELIKEY
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: BLRCKC1
PURPOSE: POPULATE THE RC-DEPKC-LIST TABLE BY ADDING ENTRIES,
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLRCKC1
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

FOR EACH LEVEL OF RELATIONS IN FROM-MODEL FIND
THE KEY CLASSES FOR THE DEPENDENT ENTITY WHICH
CONTAIN ATTRIBUTES INHERITED VIA THE RELATION
AND CALL ROUTINES TO POPULATE THE RC-DEPKC-LIST
TABLE. DISCARD AN ENTRY IF IT DOES NOT BELONG.
MODIFIED 7/24/89: ADDED LOGIC TO HANDLE CATEGORIES AS WELL AS
LINKS

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
MODEL-NO	DSPLY[S9(9)]

INCLUDE FILES:

KEYLIST
ERRCDM
RCDEPKC
DEPECL
ERRPRO

ROUTINES CALLED:

INITRDL
BLDRCEC
KYSTRUC
FNDEC
SELIKEY
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: BLVWLST
PURPOSE: BUILD THE VIEW LISTS NECESSARY FOR CREATE VIEW
LANGUAGE: VAX-11 COBOL
SOURCE FILE: BLVWLST
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE WILL BUILD THE VIEW LISTS NECESSARY
FOR THE CREATE VIEW COMMAND. BLVWLST EXTRACTS INPUT FROM THE
PARSER USING SYMBOL AND CHAIN STRUCTURE AND LOADS IT IN THE
APPRO-
PRIATE TABLES.

MODIFIED 9/6/89 TO ALLOW USE OF THE LIKE ("LK") OPERATOR
MODIFIED 9/7/89 TO ALLOW THE USE OF FULL ENTITY NAMES IN
THE WHERE CLAUSE

ARGUMENTS:

CS-QUAL-CRITERIA-LIST RECRD
BOOLEAN-LIST RECRD
VIEW-FROM-LIST RECRD
VIEW-DATA-ITEM-LIST RECRD
VIEW-RETRIEVE-LIST RECRD
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
LISTNOS
ERRCDM
ATTRNOS
CSQCLST
BOOLST
VWFROM
VWDI
VWRETR
ERRPRO

ROUTINES CALLED:

GET_FIRST_SYMB
VERENT
GET_FRST_CHAIN
GET_NEXT_SYMB
LOWUPP
CDTRNSX
VERTAG
GTDTTYP
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CATFROM

PURPOSE: GENERATE CREATE CATEGORY, DESCRIBE COMMANDS IN THE
TO-MODEL

LANGUAGE: VAX-11 COBOL

SOURCE FILE: CATFROM

SOURCE FILE TYPE: PRC

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE SELECTS ALL THE RELATIONS IN WHICH THE
FROM-ENTITY IS A CATEGORY MEMBER. IF THE SAME ENTITY
EXISTS IN THE TO-MODEL BUT NOT THE RELATION, THEN A
CREATE CATEGORY AND DESCRIBE COMMANDS ARE GENERATED
FOR THE FROM-RELATION.

ARGUMENTS:

FROM-EC-NO DSPLY[S9(9)]
TO-EC-NO DSPLY[S9(9)]
FROM-EC-NAME DSPLY[X(30)]
TO-EC-NAME DSPLY[X(30)]
TO-MOD-NO DSPLY[S9(9)]
FROM-MOD-NO DSPLY[S9(9)]
KW-FLAG DSPLY[9]
DESC-FLAG DSPLY[9]
COMBINE-TYPE DSPLY[9]
RCNO-LIST RECRD

INCLUDE FILES:

SRVRET
RELTBL
ERRPRO

ROUTINES CALLED:

SELECNM
VERCR
VERENT
VERCRNM
SELACNM
GENCNME
BLKCL1
CMBRKW
ADDPARM
GENDESC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CDNMOD
PURPOSE: DROP ALL REFERENCES OF NDML MODULE (AP)
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CDNMOD
SOURCE FILE TYPE: PCO
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: SHARE

DESCRIPTION:

USE SQL TO DELETE ALL ROWS FROM THE NDML MODULE
CDM TABLE FOR A USER MODULE BEING RE-PRECOMPILED.
REWRITTEN FOR RELEASE 2.3, NEW CDM TABLES AND USE SQL

ARGUMENTS:

```
MOD-ID          DSPLY[X(10)]
RET-STATUS      DSPLY[X(5)]
```

INCLUDE FILES:

CHKCDM
ERRCDM
EOD
ERRPRO

ROUTINES CALLED:

SQLSCA
SQLBS1
SQLSCH
SQLSCC
SQLTFL
SQLOPN
SQLOSQ
SQLADR
SQLAB1
SQLEXE
SQLWNR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CDP4A
PURPOSE: VERIFY USER VIEW STRUCTURE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CDP4A
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE WILL PERFORM THE NECESSARY
LGORITHM TO VERIFY A LEGAL USER VIEW

CLASS STRUCTURE:

1. ALL ENTITY CLASSES CONNECTED BY 1-1 SETS MUST
BE A REGULAR HIERARCHY
2. EACH GROUPING OF 1-1 STRUCTURES CAN BE SUBSTITUTED
AS A SINGLE NODE
3. THE RESULTING STRUCTURE OF ALL 1-MANY RELATIONSHIPS
MUST FORM A CONFLUENT HIERARCHY

ALL INPUT TO THIS ROUTINE WILL BE SET UP IN THE
SEC-DECOMP-LIST WHICH CONTAINS ALL ENTITY CLASSES THAT
ARE RELATED AND THE TYPE OF RELATIONSHIP.

-

USING A POPULATED SEC-DECOMP-LIST, THIS ROUTINE
WILL VALIDATE A VALID SURROGATE ENTITY CLASS, I.E.
A REGULAR-CONFLUENT HIERARCHY

ARGUMENTS:

SEC-DECOMP-LIST
RET-STATUS

RECRD
DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SDLIST
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CDTRNSX
PURPOSE: TRANSLATE EXCLUSIVE OR (XOR) AND NOT OPERATORS.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CDTRNSX
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS FUNCTION WILL TRANSLATE THE "XOR" AND
"NOT" OPERATORS IN THE WHERE CLAUSE OF THE NDML STATEMENT.
IT WILL UPDATE BOTH THE ES-QUALIFY-LIST AND BOOLEAN-LIST
TO REFLECT THE TRANSLATION OF "XOR" AND "NOT" TO ALL "AND"
AND "OR" OPERATORS.
-

ARGUMENTS:

CS-QUAL-CRITERIA-LIST RECRD
BOOLEAN-LIST RECRD
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
CSQCLST
BOOLST
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CERELS
PURPOSE: GENERATES NDDL COMMANDS ON A FILE FOR ALL ENTITIES IN
A RELATION.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CERELS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE GENERATES NDDL COMMANDS ON A FILE FOR ALL
ENTITIES IN A RELATION.

ARGUMENTS:

FROM-MODEL-NO	DSPLY[S9(9)]
CUR-MODEL-NO	DSPLY[S9(9)]
CUR-MODEL-NAME	DSPLY[X(30)]
FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NO	DSPLY[S9(9)]
FROM-EC-NAME	DSPLY[X(30)]
TO-EC-NAME	DSPLY[X(30)]
KW-FLAG	DSPLY[9]
ALIAS-FLAG	DSPLY[9]
DESC-FLAG	DSPLY[9]
FILE-NAME	DSPLY[X(30)]

INCLUDE FILES:

RELTBL
ERRPRO

ROUTINES CALLED:

OPNFIL
ADDPARM
GENENT1
UERROR
BLKCL1
DEPFROM
GENALTE
INDFROM
CLSFIL
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CESTRUC
PURPOSE: GENERATES NDDL COMMANDS ON A FILE FOR ALL ENTITIES
 FOR THE STRUCTURE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CESTRUC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE GENERATES NDDL COMMANDS ON A FILE FOR ALL
ENTITIES FOR THE STRUCTURE.

ARGUMENTS:

FROM-MODEL-NO	DSPLY[S9(9)]
FROM-MODEL-NAME	DSPLY[X(30)]
FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NAME	DSPLY[X(30)]
KW-FLAG	DSPLY[9]
ALIAS-FLAG	DSPLY[9]
DESC-FLAG	DSPLY[9]
FILE-NAME	DSPLY[X(30)]
CUR-MODEL-NAME	DSPLY[X(30)]

INCLUDE FILES:

RCDEPKC
ERRPRO

ROUTINES CALLED:

OPNFIL
ADDPARM
GENENT1
BLKCL1
GENALTE
DEPATT
DEPENT
DPKCLST
DEPREL
CLSFIL
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKATT
PURPOSE: CHECK IF ATTRIBUTES HAVE BEEN CREATED ACCORDING TO
STANDARDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKATT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CHECKS TO SEE IF THE FOLLOWING RULES ARE
FULFILLED:

- 1) EACH ENTITY MUST HAVE AT LEAST ONE ATTRIBUTE USE CLASS
- 2) EACH ATTRIBUTE CLASS MUST HAVE A DOMAIN AND THAT DOMAIN
MUST HAVE A STANDARD DATA TYPE.

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
EC-NAME	DSPLY[X(30)]
NDDL-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKAUCV
PURPOSE: CHECK EXISTENCE OF AN UNIQUE AUC VALUE FOR
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKAUCV
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CHKAUCV SEARCHES ALL AUC TO SET MAPPINGS FOR A PARTICULAR AUC
TO DETERMINE WHETHER AN AUC VALUE HAS BEEN USED MORE THAN
ONCE FOR A SINGLE PREFERENCE.
IF SO, FOUND SET TO 1.

ARGUMENTS:

TAG-NO	DSPLY[S9(9)]
PREF-NO	DSPLY[S9(9)]
IN-AUC-VALUE	DSPLY[X(30)]
HZ-FLAG	DSPLY[X]
IN-RT-NO	DSPLY[S9(9)]
IN-DB-ID	DSPLY[S9(9)]
FOUND	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKCARD
PURPOSE: OBTAINS THE USER-SPECIFIED CARDINALTY (IF ANY) FOR
 THE RELATION.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKCARD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CHKCARD OBTAINS THE USER-SPECIFIED CARDINALTY
(IF ANY) FOR THE RELATION FROM THE LISTS,
VERIFIES IT AND TRANSFERS IT TO NUMERIC
VARIABLES WHICH ARE RETURNED TO THE CALLING
ROUTINE. IF A CARDINALITY IS OMITTED BY THE
USER, IT IS ASSIGNED A DEFAULT VALUE.

ARGUMENTS:

NO-IND-ENT DSPLY[S9(9)]
MIN-NO-DEP-ENT DSPLY[S9(9)]
MAX-NO-DEP-ENT DSPLY[S9(9)]
RTN-STATUS DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS

ROUTINES CALLED:

CPFONE
LOWUPP
UWARN
CPFNXT
UERROR

DOCGROUP PS41100 Module Documentation

NAME: CHKCAT
PURPOSE: SELECT COUNT OF CATEGORY RELATIONS FOR A SPECIFIC KEY
CLASS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKCAT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

This routine will select the count of category relations
for specific key class.

ARGUMENTS:

KC-NO	DSPLY[S9(9)]
CAT-COUNT	DSPLY[S9(9)]
RTN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKCDOM
PURPOSE: CHECK TO MAKE SURE THE NEW DOMAIN WILL KEEP EXISTING
CATEGORIES VALI
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKCDOM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

This routine will select the specific values of a cateogry relation and check them against the specific values allowed for the new domain that is to assigned to an attribute that is also a discriminator for the category in question. If category were to become invalid because of the domain change, send out error and do not allow change.

ARGUMENTS:

AC-NO	DSPLY[S9(9)]
DOM-NO	DSPLY[S9(9)]
RTN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

VERVAL
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKCMPX
PURPOSE: DETERMINES IF ALGORITHM CAN BE OUTPUTTED
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKCMPX
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

ARGUMENTS:

MOD-TABLE	RECRD
DB-ID	DSPLY[S9(9)]
DB-NAME	DSPLY[X(30)]
RT-ID	DSPLY[X(30)]
MOD-ID	DSPLY[X(10)]
AUC-USE-CODE	DSPLY[X]
MOD-INST	DSPLY[S99]
PREF-NO	DSPLY[S9(9)]
AUC-PARM-TABLE	RECRD
RT-PARM-TABLE	RECRD
DF-PARM-TABLE	RECRD

INCLUDE FILES:

ERRCDM
SRVRET
MDTBL
AUPTBL
RTPTBL
DFPTBL
ERRPRO

ROUTINES CALLED:

SELAPRM
SELRTPM
SELDFPM
GENDALG
UERROR
SELDI
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKDOMS
PURPOSE: VERIFY THAT THE DATA ITEM AND ATTRIBUTE USE CLASS.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKDOMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CHKDOM WILL VERIFY THAT THE DATA ITEM AND
ATTRIBUTE USE CLASS REFERENCED IN THE VIEW
COMMAND ARE FROM THE SAME DOMAIN CLASS.

MODIFICATIONS: MAY 6,1987-R. STEWART- REMOVED CHECK FOR BAD
TAG-NO
MAY 28,1987-R. STEWART- ADDED CALL TO GETNXNM FOR
DATAITEM NUMBER AND CHANGED INTERFACE FOR INSDI,
INSPDI

ARGUMENTS:

VIEW-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]
TAG-NAME DSPLY[X(30)]
DI-NAME DSPLY[X(30)]
DATA-TYPE-NAME DSPLY[X(30)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
UNIQENO

ROUTINES CALLED:

GETDOM
UERROR
GETNNUM
VERDTD
VERSDT
VALDTN
INSDI
INSPDI

DOCGROUP PS41100 Module Documentation

NAME: CHKHPRT
PURPOSE: CHECKS TO SEE IF A PREVIOUS MAPPING WAS A STRAIGHT
MAP
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKHPRT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
TAG-NO	DSPLY[S9(9)]
PREF-NO	DSPLY[S9(9)]
FOUND-FLAG	DSPLY[X]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKINH

PURPOSE: checks the RC-DEPKC table and determines when a key
class can be add

LANGUAGE: VAX-11 COBOL

SOURCE FILE: CHKINH

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

CHKINH checks the RC-DEPKC table and determines
when a key class can be added to a dep-ec.

If a key class for a given rc-no and dep-ec-no does
not appear further down in the RC-DEPKC table
then the key class(es) can be added to the dep-ec-no.

ARGUMENTS:

RC-NO	DSPLY[S9(9)]
DEP-EC-NO	DSPLY[S9(9)]
RC-DEPKC-LIST	RECRD
KC-LIST	RECRD

INCLUDE FILES:

RCDEPKC
KEYLIST

DOCGROUP PS41100 Module Documentation

NAME: CHKKEYS
PURPOSE: CHECKS TO SEE IF A KEY CLASS FULFILLED RULES.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKKEYS
SOURCE FILE TYPE: PCO
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CHECKS TO SEE IF THE FOLLOWING RULES ARE
FULFILLED:

- 1) A KEY CLASS MUST BE DEFINED FOR EACH ENTITY CLASS
 - 2) MULTIPLE KEY CLASSES OF AN ENTITY CLASS MUST NOT BE
SUBSETS OF ONE ANOTHER.
 - 3) A PRIMARY KEY EXISTS IF ANY FOR AN ENTITY
- REVISED: DEC 30, 1986-CONVERTED TO PCO. ORACLE-LDA IS STILL
BEING PASSED IN EVEN THOUGH IT IS NO LONGER USED.
5/89: ORACLE-LDA IS NO LONGER PASSED.

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
EC-NAME	DSPLY[X(30)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

CHKCDM
ERRCDM
EOD
ERRPRO

ROUTINES CALLED:

SQLSCA
SQLBS1
SQLSCH
SQLSCC
SQLTOC
SQLOSQ
SQLADR
SQLAB1
SQLEXE
UERROR
ADDPARM
SQLCLS
SQLAD1
SQLFCH
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKMKM
PURPOSE: CHECK IF LINK RELATION MIGRATED KEYS HAVE BEEN SPLIT
 IN DEPENDENT
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKMKM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CHECKS TO SEE IF THE FOLLOWING RULES ARE
FULFILLED:

- 1) MIGRATED KEY IS ALL NON-KEY OR ALL KEY

ARGUMENTS:

RC-NO	DSPLY[S9(9)]
RC-NAME	DSPLY[X(30)]
DEP-EC-NO	DSPLY[S9(9)]
EC-NO	DSPLY[S9(9)]
EC-NAME	DSPLY[X(30)]
NDDL-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

RETRECP
ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKMOD
PURPOSE: CHECKS A CDM MODEL TO ASSURE IT FOLLOWS IDEF1 RULES
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE DETERMINES WHETHER CERTAIN RULES ARE FULFILLED,
AND IF THEY ARE, THE IDEF MODEL IS MARKED AS "CHECKED".
AFTER EXTRACTING THE MODEL NAME FROM THE PARSER LISTS,
VERIFY THAT THE MODEL EXISTS. THEN CHECK THAT THE RULES
ARE OBSERVED, AND IF THEY ARE, UPDATE THE MODEL AS "CHECKED".

INCLUDE FILES:

LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERMOD
UERROR
NFLOPEN
ADDPARM
GETECS
CHKLOOP
UPDMOD
NFLCLOS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKOWN

PURPOSE: checks each of the OWN-ec's key classes against the
RC-DEPKC_LIST.

LANGUAGE: VAX-11 COBOL

SOURCE FILE: CHKOWN

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

CHKOWN checks each of the OWN-ec's key classes against the RC-DEPKC_LIST. If the key class does not appear anywhere in the table, then the key class is owned by the dep-ec and can be added at this point.

ARGUMENTS:

DEP-EC-NO	DSPLY[S9(9)]
RC-DEPKC-LIST	RECRD
EC-LIST	RECRD
KC-LIST	RECRD
RTN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

RCDEPKC
ECLIST
KEYLIST

ROUTINES CALLED:

NEXTKC
UERROR

DOCGROUP PS41100 Module Documentation

NAME: CHKREL
PURPOSE: CHECK IF RELATIONS HAVE BEEN CREATED ACCORDING TO
STANDARDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKREL
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CHECKS TO SEE IF THE FOLLOWING RULES ARE
FULFILLED:

- 1) NO NON-SPECIFIC RULES
- 2) NO INCOMPLETE RELATION CLASSES
- 3) NO ONE-TO-ONE RELATIONSHIPS.
- 4) MIGRATED KEY IS A PRIMARY OR AN ALTERNATE
- 5) MIGRATED KEY HAS NOT BEEN SPILT IN DEPENDENT ENTITY

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
EC-NAME	DSPLY[X(30)]
NDDL-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

RETRECP
ADDPARM
VERRCC
VERKCT1
CHKMKM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKRELC
PURPOSE: CHECK IF CATEGORY RELATIONS HAVE BEEN CREATED
 ACCORDING TO STANDARDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKRELC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CHECKS TO SEE IF THE FOLLOWING RULES ARE
FULFILLED:

- 1) MORE THAN ONE MEMBER

ARGUMENTS:

EC-NO	DSPLY[S9(9)]
EC-NAME	DSPLY[X(30)]
NDDL-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKRNG
PURPOSE: CREATES 88 LEVELS OF VERIF. MODULE FOR RANGES
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKRNG
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-RETRIEVES ALL RANGES FROM DOMAIN RANGE
TABLE TO INCORPORATE IN A NEW VERIFICATION
MODULE.
MODIFIED MAR 16, 1988 TO SUPPORT FIOPS

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
TYPE-ID DSPLY[X]
MAX-SIZE DSPLY[S9(9)]
NO-OF-DEC DSPLY[S9(9)]
FILE-NAME DSPLY[X(80)]
FCB DSPLY[S9(9)]
MOD-APNAME DSPLY[X(10)]
BEGIN-FLAG DSPLY[X]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

SRVRET
ERRCDM
ERRPRO

ROUTINES CALLED:

CRTMACR
OUTFIL
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CHKVAL
PURPOSE: CREATES 88 LEVELS OF VERIF. MODULE FOR VALUES
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CHKVAL
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-RETRIEVES ALL VALUES FROM DOMAIN VALUE
TABLE TO INCORPORATE IN A NEW VERIFICA-
TION MODULE.

MODIFIED MAR 16, 1988 TO SUPPORT FIOP'S

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
TYPE-ID DSPLY[X]
MAX-SIZE DSPLY[S9(9)]
NO-OF-DEC DSPLY[S9(9)]
FILE-NAME DSPLY[X(80)]
FCB DSPLY[S9(9)]
MOD-APNAME DSPLY[X(10)]
BEGIN-FLAG DSPLY[X]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

SRVRET
ERRCDM
ERRPRO

ROUTINES CALLED:

CRTMACR
OUTFIL
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CKDUPEC
PURPOSE: POPULATES A TABLE WITH ENTITY NAMES.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CKDUPEC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE IS CALLED FROM MRGMOD2 WHICH IN TURN
IS CALLED BY MRGMOD (MERGE MODEL)
IT POPULATES A TABLE WITH ENTITY NAMES
AFTER VERIFYING THAT THE ENTITY IS NOT ALREADY
PRESENT.

ARGUMENTS:

DEP-EC-NO	DSPLY[S9(9)]
EC-LIST	RECRD
FOUND-FLAG	DSPLY[S9(9)]

INCLUDE FILES:

ECLIST

DOCGROUP PS41100 Module Documentation

NAME: CKRNLST
PURPOSE: SEARCHES THE TABLE OF RENAME PAIR LOOKING FOR AN
 OLD-TAG ENTRY.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CKRNLST
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CKRNLST SEARCHES THE TABLE OF RENAME PAIRS
LOOKING FOR AN OLD-TAG ENTRY WHICH MATCHES THE
TAG-NAME FROM CURRENT KEY MEMBER OCCURRENCE.
IF A MATCH IS FOUND, THE RENAME-TAG ENTRY IS
MOVED TO NEW-TAG-NAME. IF A MATCH IS NOT
FOUND, NEW-TAG-NAME RETAINS ITS DEFAULT VALUE,
WHICH IS THE TAG-NAME OF CURRENT KEY MEMBER.

ARGUMENTS :

REN-LIST	RECRD
TAG-NAME	DSPLY[X(30)]
NEW-TAG-NAME	DSPLY[X(30)]

INCLUDE FILES:

RENLIST

DOCGROUP PS41100 Module Documentation

NAME: CMBACAL
PURPOSE: GENERATE CREATE ALIAS ATTRIBUTE.. AND ALIAS DESC TEXT
 COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMBACAL
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

This routine selects all the alias for an attribute given the ac-no. Each time an alias name is selected the target model is checked. If the alis does not exist in the target model, NDDL statements to create the alias in the target model are generated. If descriptions are not excepted, NDDL statements to create descriptions of the alias are also generated.

ARGUMENTS:

TO-MOD-NO	DSPLY[S9(9)]
AC-NO	DSPLY[S9(9)]
AC-NAME	DSPLY[X(30)]
DESC-FLAG	DSPLY[9]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

VERATT
GENALI
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMBALI
PURPOSE: GENERATE CREATE ALIAS ENTITY..COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMBALI
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE DETERMINES IF THE FROM-EC-NAME EXISTS IN THE
TO-MODEL AS AN ALIAS OF THE TO-EC. IF IT DOESN'T, GENERATE
"CREATE ALIAS ENTITY" COMMAND.

ARGUMENTS:

TO-MODEL-NO	DSPLY[S9(9)]
FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NO	DSPLY[S9(9)]
TO-EC-NAME	DSPLY[X(30)]
COMBINE-TYPE	DSPLY[9]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

GENALI
VERALI
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMBEKW
PURPOSE: GENERATE ADD KEYWORD CLAUSE FOR ENTITY KEYWORDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMBEKW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE GENERATES THE ADD KEYWORD PHRASE IN COMBINE
ENTITY FOR EACH KEYWORD FOUND IN THE FROM MODEL, BUT NOT
FOUND IN THE TO-MODEL.

ARGUMENTS:

FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NO	DSPLY[S9(9)]
CREATE-FLAG	DSPLY[9]
COMBINE-TYPE	DSPLY[9]
KW-COUNT	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

VERKWE
ADPARM1
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMBENT
PURPOSE: CONROLS THE PROCESSING LOGIC FOR THE COMBINE ENTITY COMMAND.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMBENT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONROLS THE PROCESSING LOGIC FOR THE COMBINE ENTITY
COMMAND. IT GENERATES THE NECESSARY NDDL COMMANDS TO POPULATE THE
TO-MODEL WITH THE ALIASES, DESCRIPTIONS, RELATIONS AND ATTRIBUTES
ASSOCIATED WITH THE FROM-MODEL ENTITY. ENTITIES MAY BE COMBINED
WITHIN THE SAME MODEL(INTRA MODEL) OR BETWEEN TWO MODELS
(INTER-MODEL). MODIFIED 6/29/89: TO HANDLE CATEGORY AND LINK
RELATIONS NOTE: 0 = INTRA-MODEL COMBINE
1 = INTER-MODEL COMBINE
0 = USER WANTS KEYWORDS, ALIASES AND/OR DESCRIPTIONS
1 = USER WANTS THE ABOVE EXCEPTED.

ARGUMENTS:

```
MODEL-NO          DSPLY[S9(9)]
MODEL-NAME        DSPLY[X(30)]
```

INCLUDE FILES:

LISTNOS
RELTLB
CHKMODL
ERRPRO

ROUTINES CALLED:

UERROR
CPFONE
CPFNXT
EXCFLAG
VERMOD
VERENT
FNDECCR
FNDECM1
NFPLOE
ADDPARM
FRTOREL
FNDECCM
BLKCL1
GENENT1
DEPFROM
CATFROM
GENALTE
INDFROM
GENFROM
NFLCLOS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMBOA
PURPOSE: GENERATE COMMANDS FOR ATTRIBUTES, ITS
 KEYWORDS, ALIAS, DESC
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMBOA
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE GENERATES A CREATE ATTRIBUTE COMMAND FOR EACH
OWNED ATTRIBUTE, ALONG WITH THEIR KEYWORDS, ALIASES AND
DESCRIPTIONS.

mar 18, 1988 : merge model output was intermixed,, output
should be displayed at end of ndml statement

ARGUMENTS:

TO-MOD-NO	DSPLY[S9(9)]
FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NAME	DSPLY[X(30)]
KW-FLAG	DSPLY[9]
ALIAS-FLAG	DSPLY[9]
DESC-FLAG	DSPLY[9]
COMBINE-TYPE	DSPLY[9]
CREATE-FLAG	DSPLY[9]
ATT-COUNT	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

VERATT
GENATT
GENDESC
CMBACAL
ADPARM1
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMBRKW
PURPOSE: SELECT AND GENERATE RELATION CLASS KEYWORDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMBRKW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE SELECTS A RELATION CLASS KEYWORD GIVEN THE
RELATION CLASS NUMBER.

ARGUMENTS:

FROM-RC-NO	DSPLY[S9(9)]
TO-RC-NO	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

VERKWR
ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMCOUNT
PURPOSE: SELECT COUNT OF CAT_MEMBER FOR A GIVEN RC_NAME AND
 GENERIC ENTITY NA
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMCOUNT
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SELECT COUNT OF CATEGORY MEMBERS FOR A GIVEN RC_NAME
AND GENERIC ENTITY NAME

ARGUMENTS:

MODEL-NAME DSPLY[X(30)]
EC-NAME DSPLY[X(30)]
RC-NAME DSPLY[X(30)]
CAT-COUNT DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMPCRDA
PURPOSE: SELECT THE DISCRIMINATING ATTRIBUTE FOR RC_NAME AND
 GENERIC ENTITY N
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMPCRDA
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SELECT DISCRIMINATING ATTRIBUTE NAME FOR A GIVEN RC_NAME
AND GENERIC ENTITY NAME AND MODEL_NAME

ARGUMENTS:

MODEL-NAME DSPLY[X(30)]
EC-NAME DSPLY[X(30)]
RC-NAME DSPLY[X(30)]
DA-NAME DSPLY[X(30)]

INCLUDE FILES:

SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CMPMOD
PURPOSE: CONTROLS THE PROCESSING LOGIC TO COMPARE TWO MODELS.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CMPMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS COMMAND CONTROLS THE PROCESSING LOGIC TO COMPARE TWO MODELS, AND OUTPUTS THE DIFFERENCES.
MODIFIED 9/4/89: ADDED LOGIC TO HANDLE CATEGORY RELATIONS AFTER EXTRACTING AND VERIFYING THAT THE 2 MODELS EXIST, COMPARE THE ENTITIES, ATTRIBUTES AND KEYWORDS WITHIN THE MODEL.

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
CPFNXT
VERMOD
UERROR
NFLOPEN
LOWUPP
RETREC2
RETREC1
RETRAC2
RETRAC1
ENTKW
ATTKW
RELKW
RCLASS
RCLASA
CRCLASS
CRCLASA
ADDPARM
NFLCLOS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CONVCHR
PURPOSE: CONVCHR - VERIFY A NUMERIC VALUE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CONVCHR
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

FUNCTION CONVCHR VALIDATES A CHARACTER STRING TO DETERMINE WHETHER IT IS NUMERIC. THE FOLLOWING RULES ARE APPLIED:

1. A SIGN, IF PRESENT, MUST BE EITHER "+" OR "-" AND MUST IMMEDIATELY PRECEED A DECIMAL DIGIT OR DECIMAL POINT.
 2. THE NUMBER, INCLUDING SIGN, DOES NOT HAVE TO BE LEFT JUSTIFIED IN THE FIELD, AS LONG AS THERE ARE NO EMBEDDED BLANKS.
 3. THERE MAY BE, AT MOST, ONE DECIMAL POINT.
 4. A DECIMAL NUMBER MUST EITHER PRECEED OR FOLLOW THE DECIMAL POINT. A DECIMAL NUMBER MAY BOTH PRECEED AND FOLLOW THE DECIMAL POINT.
 5. AT LEAST ONE DECIMAL DIGIT MUST APPEAR IN THE NUMBER. IF VIOLATIONS OF THE ABOVE RULES OCCURS, AN ERROR MESSAGE IS GENERATED.
- APPLY RULES 1 THROUGH 5. GENERATE FATAL ERROR MESSAGE IF NECESSARY.

ARGUMENTS:

VALUE-IN
ERROR-STATUS

RECRD
DSPLY[S9(9)]

DOCGROUP PS41100 Module Documentation

NAME: CONVCPF
PURPOSE: CONVERT A CHARACTER VARIABLE TO INTEGER
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CONVCPF
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE IS CALLED WHENEVER A CHARACTER
VARIABLE X(4) IS TO BE CONVERTED TO AN
INTERGER FIELD S9(9) COMP.

AN INTEGER TOKEN IS PLACED ON
THE PARSER LIST (CPF) AS CHARACTER X(4). THIS
TOKEN NEEDS TO BE RE-CONVERTED TO INTEGER.
do not call this routine if no variable
was returned after a cpf call.

ARGUMENTS:

IN-FIELD	DSPLY[X(4)]
OUT-FIELD	DSPLY[S9(9)]

DOCGROUP PS41100 Module Documentation

NAME: COPAALI
PURPOSE: GENERATE CREATE ALIAS ATTRIBUTE COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPAALI
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Generate create alias attribute commands.

ARGUMENTS:

AC-NO	DSPLY[S9(9)]
AC-NAME	DSPLY[X(30)]
COPY-TYPE	DSPLY[X(30)]
TO-MODEL-NO	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
VERATT
GENALI
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPAKW
PURPOSE: GENERATE ALTER ATTRIBUTE ADD KEYWORD COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPAKW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Generate alter attribute keyword commands.

ARGUMENTS:

AC-NO	DSPLY[S9(9)]
AC-NAME	DSPLY[X(30)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPATT
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR COPYING AN
 ATTRIBUTE.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPATT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC FOR COPYING
AN ATTRIBUTE TO A MODEL.
RETRIEVE THE ATTRIBUTE NAME TO BE COPIED. THEN DETERMINE
IF THE COPY WILL BE DONE IMMEDIATELY OR GENERATED ON A FILE.
ALSO DETERMINE WHETHER THE KEYWORDS, ALIASES OR DESCRIPTIONS
ARE TO BE COPIED.

ARGUMENTS:

MODEL-NO	DSPLY[S9(9)]
CUR-MODEL-NAME	DSPLY[X(30)]

INCLUDE FILES:

LISTNOS
CHKMODL
ERRPRO

ROUTINES CALLED:

UERROR
CPFONE
CPFNXT
EXCFLAG
VERMOD
VERACNM
ICOPATT
FCOPATT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPCKW
PURPOSE: GENEREATE ALTER CATEGORY ADD KEYWORD COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPCKW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Genrate alter category add keyword commands.

ARGUMENTS:

IND-EC-NAME	DSPLY[X(30)]
RC-NAME	DSPLY[X(30)]
RC-NO	DSPLY[S9(9)]
KW-CNT	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPEKW
PURPOSE: GENERATE ALTER ENTITY ADD KEYWORD COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPEKW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Generate alter entity add keyword command. Generate
alter entity add then generate the keyword EC-KW-NAME portion
of the command.

ARGUMENTS:

FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NAME	DSPLY[X(30)]
KW-CNT	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPENT
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR THE COPY ENTITY
 COMMAND.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPENT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine controls the processing logic for
the copy entity command. Retrieve information from parser
lists and do some initial verification. Then branch to
routines depending on type of copy: intra/inter,
simple/with structure/with reation, on file/directly.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
CUR-MODEL-NAME DSPLY[X(30)]

INCLUDE FILES:

LISTNOS
CHKMODL
ERRPRO

ROUTINES CALLED:

UERROR
CPFONE
VERMOD
VERENT
CPFNXT
LOWUPP
TRADIR
TRAFIL
TERSIM
TERDIR
TERSTR
TERREL
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPOA
PURPOSE: GENERATE CREATE ATTRIBUTE OR ALTER ENTITY OWNED
ATTRIBUTE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPOA
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

If GEN_FLAG is 0 generate CREATE ATTRIBUTE commands,
ALTER ATTRIBUTE ADD KEYWORDS commands (if keywords are not
excepted), CREATE ALIAS ATTRIBUTE COMMANDS (if aliases are not
excepted), and DESCRIBE ATTRIBUTE COMMANDS (if descriptions are
not excepted). If GEN_FLAG is 1 generate ALTER ENTITY ADD OWNED
ATTRIBUTE commands.

ARGUMENTS:

FROM-EC-NO DSPLY[S9(9)]
TO-EC-NAME DSPLY[X(30)]
TO-MODEL-NO DSPLY[S9(9)]
GEN-FLAG DSPLY[X]
ALIAS-FLAG DSPLY[X]
KEYWORD-FLAG DSPLY[X]
DESC-FLAG DSPLY[X]
COPY-TYPE DSPLY[X(30)]
FROM-MOD-NO DSPLY[S9(9)]
NKEY-FLAG DSPLY[X]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

GENATTR
ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPRKW
PURPOSE: GENERATE ALTER RELATION ADD KEYWORD COMMANDS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPRKW
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- Genrate alter relation add keyword commands.

ARGUMENTS:

IND-EC-NAME	DSPLY[X(30)]
RC-NAME	DSPLY[X(30)]
RC-NO	DSPLY[S9(9)]
DEP-EC-NAME	DSPLY[X(30)]
KW-CNT	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPVALI
PURPOSE: GENERATE CREATE ALIAS ENTITY COMMANDS FOR AN
INTER-MODEL COPY.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPVALI
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

ARGUMENTS:

FROM-EC-NO	DSPLY[S9(9)]
TO-EC-NAME	DSPLY[X(30)]
MODEL-NO	DSPLY[S9(9)]
COPY-TYPE	DSPLY[X(30)]
FROM-MOD-NO	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ADDPARM
GENALI
VERENT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: COPYAC
PURPOSE: RETRIEVE INFO TO COPY AN ATTRIBUTE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: COPYAC
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

This routine selects information to
create an attribute, add as owned to
an entity and finally add all key classes for the entity class.

ARGUMENTS:

NEW-EC-NO DSPLY[S9(9)]
OLD-EC-NO DSPLY[S9(9)]
TO-MODEL-NO DSPLY[S9(9)]
KW-FLAG DSPLY[9]
ALIAS-FLAG DSPLY[9]
DESC-FLAG DSPLY[9]
KEY-FLAG DSPLY[9]
NKEY-FLAG DSPLY[9]
KC-LIST RECRD

INCLUDE FILES:

SRVRET
KCLIST
ERRPRO

ROUTINES CALLED:

TERATTR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPARM
PURPOSE: CALL ADDPARM USING VARIABLES FROM C PROGRAMS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPARM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- C PROGRAMS RCLASS AND RCLASA CALL THIS
PROGRAM TO STRUCTURE THE OUTPUT MMSG
WHEN A RELATION CLASS EXISTS IN TWO MODELS
AND CALL "ADDPARM"

-

ARGUMENTS:

IND-EC-NAME DSPLY[X(30)]
RC-NAME DSPLY[X(30)]
DEP-EC-NAME DSPLY[X(30)]

ROUTINES CALLED:

ADDPARM

DOCGROUP PS41100 Module Documentation

NAME: CPDDRAL
PURPOSE: PROCESS COPY DESCRIPTION ALL TYPES DIRECTLY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPDDRAL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

LL TYPES DIRECTLY

DESCRIPTION :- This routine will copy every description
type directly into the CDM. First, this routine will retrieve
the object type and verify it exists. Then, the object numbers
will be retrieved. Finally, all description will be copied.
MODIFIED 6/1/89 : CHANGE SECOND CALL TO VEROBJ BECAUSE
TO-OBJECTS
ARE NOT ON THE SAME LIST AS THE FROM-OBJECTS
-

ARGUMENTS:

FROM-MOD-NO	DSPLY[S9(9)]
CUR-MOD-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VEROBJ
VROBJ
SELDESC
UERROR
UWARN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPDDRSP
PURPOSE: PROCESS COPY DESCRIPTION WITH SPECIFIED DESC DIRECTLY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPDDRSP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ITH SPECIFIED DESC DIRECTLY

DESCRIPTION :- This routine will retrieve the object type off the parser list. It then calls routines to verify the object type and retrieve the from and to object name(s). For each description type specified, the description will be retrieved from the from object name and copied to the to object name.

MODIFIED 6/1/89 : CHANGED SECOND CALL TO VEROBJ BECAUSE
TO-OBJECTS
ARE NOT ON THE SAME LIST AS THE FROM-OBJECTS

-

ARGUMENTS:

FROM-MOD-NO	DSPLY[S9(9)]
CUR-MOD-NO	DSPLY[S9(9)]
DES-COUNT	DSPLY[S9(9)]
DESC-TYPE	DSPLY[X(30)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VEROBJ
VROBJ
SEL1DSC
CPFNXT
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPDOFAL
PURPOSE: PROCESS COPY ALL DESCRIPTION TYPE, ON FILE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPDOFAL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

YPE, ON FILE

DESCRIPTION :- This routine will process a copy all
descriptiton types on file. First the object type is retrieved
and verified and the object number(s) and name(s) are
retrieved.
An ALTER MODEL command is then generated if the object is a
modelling object. Then, all the DESCRIBE commands are
generated.
MODIFIED 6/1/89 : CHANGED SECOND CALL TO VEROBJ BECAUSE
TO-OBJECTS
ARE NOT ON THE SAME LIST AS FROM-OBJECTS
-

ARGUMENTS:

FROM-MOD-NO DSPLY[S9(9)]
CUR-MOD-NO DSPLY[S9(9)]
FROM-MOD-NAME DSPLY[X(30)]
CUR-MOD-NAME DSPLY[X(30)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
CPFONE
VEROBJ1
VROBJ1
ADDPARM
GENDESC
NFLCLOS
UERROR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPY1HST
PURPOSE: COPY A USER SPECIFIED HOST ID IN THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPY1HST
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

ANY PSB'S ARE ASSOCIATED WITH THE GIVEN HOST ID
AND A 'DESCRIBE' COMMAND FOR THE HOST ID IF ANY
TEXTUAL DESCRIPTION EXISTS.

ARGUMENTS:

HOST-ID DSPLY[X(30)]
HOST-NO DSPLY[S9(9)]
DESC-FLAG DSPLY[X]
PSB-FLAG DSPLY[X]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ADDPARM
ERRPRO

ROUTINES CALLED:

ADDPARM
GENPSB
GENDESC
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPY1SMD
PURPOSE: COPY A NDDL USER DEFINED SOFTWARE MODULE IN THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPY1SMD
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CALLED FROM CPYMODU AND SELMODS, THIS SUBPROGRAM
WILL GENERATE A 'DEFINE MODULE' COMMAND.

ARGUMENTS:

MOD-ID	DSPLY[X(10)]
LANG-NAME	DSPLY[X(10)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

```
ERRCDM
ADDPARM
ERRPRO
```

ROUTINES CALLED:

ADDPARM
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYDB
PURPOSE: CONTROLLING MODULE FOR COPY DATABASE COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYDB
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine is the controlling module for
the copy database command.

-

INCLUDE FILES:

DBTBL
LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
LOWUPP
ALLDB
GENDB
NFLCLOS
VERDBAL
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYDBMS
PURPOSE: CONTROLS PROCESSING LOGIC OF COPY DBMS COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYDBMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE CONTROLS THE COPY DBMS COMMAND.

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
LOWUPP
ALLDBMS
VERDBMS
ADDPARM
SELHOST
SELDB
CPFNXT
NFLCLOS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYDOM
PURPOSE: GENERATE NDDL COMMANDS TO MAKE A COPY OF DOMAINS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYDOM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- PARSE ALL THE LISTS AND CONTROL THE LOGIC
TO GENERATE THE NDDL COMMANDS FOR ALL THE
DOMAINS FOR A DATABASE OR THE DOMAIN NAMES LISTED
ON THE "COPY DOMAIN" COMMAND
-

XCEPTION LIST

INCLUDE FILES:

LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
ALLDOM
NFLCLOS
ERRPRO
UWARN
VERDOM
GENDOM
CPFNXT

DOCGROUP PS41100 Module Documentation

NAME: CPYDSTP
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR THE COPY DESC_TYPE
COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYDSTP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

CONTROLS THE PROCESSING LOGIC FOR THE COPY DESCRIPTION
TYPE COMMAND. THIS DRIVER CALLS VARIOUS ROUTINES TO
GENERATE ALL THE NDDL STATEMENTS NECESSARY TO CREATE THE
DESCRIPTION TYPES CONTAINED THE CDM

- AFTER DETERMININ THE NUMBER OF TYPES TO
COPIED, VERIFY THAT THE SPECIFIC TYPE
EXISTS AND GENERATE THE NDDL TO CREATE
THE TYPE OR ISSUE A WARNING FOR NONEXISTANT
DESCRIPTION TYPES.

INCLUDE FILES:

CHKCDM
ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
CPFONE
NFLCLOS
SELDSTP
VERDSTP
WRTDSTP
CPFNXT
UWARN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYHST

PURPOSE: COPY USER SPECIFIED HOST(S) OR ALL HOSTS IN THE CDM

LANGUAGE: VAX-11 COBOL

SOURCE FILE: CPYHST

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE CONTROLS THE PROCESSING LOGIC
FOR THE COPY HOST COMMAND

-

ARSER LIST, IF "DESC" WORD
FOUND SET DESC-FLAG.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
CPFNXT
LOWUPP
NFLCLOS
VERHST
CPY1HST
SELHSTS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYMAP
PURPOSE: CONTROLLING MODULE FOR COPY MAP COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMAP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- This routine controls the logic for the copy map command. It calls one of four routines depending on the object the map is to be copied for: entity, relation, record , or set.

MODIFIED 5/1/89: ADDED TYPE CATEGORY.
-

INCLUDE FILES:

LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
LOWUPP
CPYMENT
CPYMREL
CPYMREC
CPYMSET
CPYMCAT
NFLCLOS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYMCAT
PURPOSE: CONTROL MODULE FOR COPY MAP TO CATEGORY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMCAT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- MODIFIED TO HANDLE CATEGORY RELATIONS ONLY

-

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
ALLMCAT
ALMROJC
CPFNXT
VERENT
UERROR
VERCR
GENMROJ
SELRMAP
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYMOD
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR THE COPY MODEL
 COMMAND.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE PROCESSING LOGIC FOR THE COPY MODEL COMMAND.
GENERATES ALL THE NDDL STATEMENTS NECESSARY TO POPULATE
THE TARGET MODEL WITH THE ATTRIBUTES, ENTITIES, RELATIONS,
KEY CLASSES, KEYWORDS, ALIASES AND DESCRIPTIONS CONTAINED
IN THE FROM-MODEL.
LAUSE IF ANY

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
MOD-NAME DSPLY[X(30)]

INCLUDE FILES:

DEPECL
LISTNOS
RCDEPKC

ROUTINES CALLED:

NFLOPEN
CPFONE
UERROR
MODOATT
MODATT
ADDPARM
MODENT
MODKC
COPTOPE
MODRCKC
MODRELA
VERMOD
CPFNXT
VERENT
LDECLST
DEPEC
NFLCLOS
UWARN

DOCGROUP PS41100 Module Documentation

NAME: CPYMODU
PURPOSE: COPY NDDL USER DEFINED SOFTWARE MODULES IN THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMODU
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE CONTROLS THE PROCESSING LOGIC
FOR THE COPY MODULE COMMAND
-

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
NFLCLOS
VERSMOD
CPY1SMD
CPFNXT
SELMODS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYMREC
PURPOSE: CONTROLS PROCESSING OF THE COPY MAP FOR RECORD
 COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMREC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE CONTROLS THE
COPY MAP FOR DATABASES/RECORD NAME(S).
"ALLMREC" IS CALLED IF ALL DATABASE/
RECORD MAPS ARE TO BE COPIED, ELSE
"SELMREC" IS CALLED IF ONLY SPECIFIC
DATABASE/RECORD MAPS ARE TO BE COPIED
-

ARGUMENTS:

PART-FLAG DSPLY[X]
UNION-FLAG DSPLY[X]

INCLUDE FILES:

LISTNOS
ERRCDM
MDTBL
HPTBL
ECRTBL
ERRPRO

ROUTINES CALLED:

CPFONE
ALLECRT
ALLMREC
VERREC
UERROR
SELMREC
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYMREL
PURPOSE: CONTROL MODULE FOR COPY MAP TO RELATION
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMREL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- MODIFIED TO HANDLE LINK RELATIONS ONLY

-

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
ALLMREL
ALLMROJ
CPFNXT
VERENT
UERROR
VERLR
GENMROJ
SELRMAP
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYMSET
PURPOSE: CONTROLS PROCESSING OF THE COPY SET MAPS COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYMSET
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE CONTROLS THE
COPY SET MAPS COMMAND

MODIFIED 5/1/89: TO HANDLE BOTH CATEGORY AND LINK RELATIONS
-

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
ALLRSET
ALLCSET
VERDB
UERROR
VERRSET
SELSET
SELSETC
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYREC
PURPOSE: CONTROLLING MODULE FOR COPY RECORD COMMAND
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYREC
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- This is the controlling module for the copy
record command. It will call GETRDH for database
information, generate an ALTER DATABASE command,
get record information, and based on this record
info will call either ALLREC or GENREC
-

INCLUDE FILES:

LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
GETRDH
CPFONE
LOWUPP
ADDPARM
ALLREC
NFLCLOS
VERRT
GENREC
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CPYSET
PURPOSE: GENERATE NDDL COMMANDS TO MAKE A COPY OF SETS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYSET
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- PARSE ALL THE LISTS AND CONTROL THE LOGIC
TO GENERATE THE NDDL COMMANDS FOR ALL THE
SETS FOR A DATABASE OR THE SET NAMES LISTED
ON THE "COPY SET" COMMAND
-

XCEPTION LIST

INCLUDE FILES:

LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
VERDBAS
GETGLOB
ADDPARM
ALLSET
NFLCLOS
ERRPRO
VERDBST
GENSET
CPFNXT

DOCGROUP PS41100 Module Documentation

NAME: CPYVIEW
PURPOSE: COPY USER SPECIFIED VIEW(S) OR ALL VIEWS IN THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CPYVIEW
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- THIS ROUTINE CONTROLS THE PROCESSING LOGIC
FOR THE COPY VIEW COMMAND

-
ARSER LIST, IF "DESC" WORD
FOUND SET DESC-FLAG.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

NFLOPEN
UERROR
CPFONE
CPFNXT
LOWUPP
NFLCLOS
VERVIEW
GENVIEW
GTVIEWS
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CREATTR
PURPOSE: Generate nddl commands to create the attribute and
 assoc.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CREATTR
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- After selecting all the attributes in the from
 model in the prc routine modatt this routine will
generate the nddl commands to create the attributes
 and its associated keywords, aliases, and
descriptions.

- This routine will process each row selected in
 the prc routine modatt. For each
row(attribute)
selected a nddl command to create this attribute
 will be generate along with its aliases,
 keywords, and descriptions depending on user
 defined except clauses in the copy model
command.

ARGUMENTS:

AC-NO DSPLY[S9(9)]
AC-NAME DSPLY[X(30)]
AC-NAME-TYPE DSPLY[X(30)]
ROW-COUNTER DSPLY[S9(9)]
DOMAIN-NAME DSPLY[X(30)]
KEYWORD-FLAG DSPLY[9]
DESC-FLAG DSPLY[9]
ALIAS-FLAG DSPLY[9]

INCLUDE FILES:

CHKCDM
ERRCDM
ERRPRO

ROUTINES CALLED:

ADDPARM
GENATT
GENDESC
GENALI
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CRPARM
PURPOSE: CALL ADDPARM USING VARIABLES FROM C PROGRAMS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRPARM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- C PROGRAMS CRCLASS AND CRCLASA CALL THIS
PROGRAM TO STRUCTURE THE OUTPUT MESSG
WHEN A CATEGORY RELATION EXISTS IN TWO MODELS
AND CALL "ADDPARM"

-

ARGUMENTS:

IND-EC-NAME DSPLY[X(30)]
RC-NAME DSPLY[X(30)]
CAT-TYPE-CODE DSPLY[X(10)]

ROUTINES CALLED:

ADDPARM

DOCGROUP PS41100 Module Documentation

NAME: CRPARM2
PURPOSE: CALL ADDPARM USING VARIABLES FROM C PROGRAMS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRPARM2
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

```

- C PROGRAMS CRCLASS AND CRCLASA CALL THIS
PROGRAM TO STRUCTURE THE OUTPUT MESG
WHEN A CATEGORY RELATION EXISTS IN TWO MODELS
AND CALL "ADDPARM"

```

ARGUMENTS:

```

IND-EC-NAME          DSPLY[X(30)]
RC-NAME              DSPLY[X(30)]
DA-NAME              DSPLY[X(10)]

```

ROUTINES CALLED:

ADDPARM

DOCGROUP PS41100 Module Documentation

NAME: CRPARM3
PURPOSE: CALL ADDPARM USING VARIABLES FROM C PROGRAMS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRPARM3
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- C PROGRAMS CRCLASS AND CRCLASA CALL THIS
PROGRAM TO STRUCTURE THE OUTPUT MESG
WHEN A CATEGORY RELATION EXISTS IN TWO MODELS
AND CALL "ADDPARM"

-

ARGUMENTS:

IND-EC-NAME	DSPLY[X(30)]
RC-NAME	DSPLY[X(30)]
CAT-COUNT	DSPLY[S9(9)]

ROUTINES CALLED:

ADDPARM

DOCGROUP PS41100 Module Documentation

NAME: CRTATT
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR CREATING AN
ATTRIBUTE.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTATT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE PROCESSING LOGIC FOR CREATING AN ATTRIBUTE AND IT RELATED DATA IN A MODEL. ONLY A SINGLE ATTRIBUTE HAVING ONE DOMAIN IS CREATED. A KEYWORD LIST MAY OR MAY NOT BE SPECIFIED FOR THE ATTRIBUTE.

```
modified: sandy singh on sep 21, 1988
to create an attribute with an "undefined" domain
```

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]

INCLUDE FILES:

UNIQENO
LISTNOS
CHKMODL

ROUTINES CALLED:

UERROR
CPHONE
LOWUPP
VERDOM
BLDATT
INSACNM
ADDKW

DOCGROUP PS41100 Module Documentation

NAME: CRTDOM
PURPOSE: CREATE NEW DOMAIN ON CDM DATABASE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTDOM
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

GIVEN A DOMAIN NAME VERIFY THAT THE DOMAIN DOES
NOT ALREADY EXIST, AND INSERT THE DOMAIN AND A
DATA TYPE CLAUSE

OBTAIN THE DOMAIN NAME, VERIFY THAT
IT DID NOT PREVIOUSLY EXIST, FETCH AN
UNIQUE DOMAIN NUMBER, AND INSERT. ALSO
ADD THE DATE TYPE CLAUSE.

INCLUDE FILES:

LISTNOS
UNIQENO

ROUTINES CALLED:

CPFONE
VERDOM
UERROR
GETNNUM
INSDOM
PROCDT

DOCGROUP PS41100 Module Documentation

NAME: CRTDSCT
PURPOSE: CREATES DESCRIPTION TYPE IF IT DOES NOT EXIST
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTDSCT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

YPE IF IT DOES NOT EXIST

DESCRIPTION :- STORES LEGAL DESCRIPTION TYPES IN
THE CDM. CALLS VERDSCT TO VERIFY DESCRIPTION TYPE
THEN CALLS INSDSCT TO INSERT DESCRIPTION TYPE.

-
YPES FROM CPFONE.
YPE TO UPPER CASE.
NTERED BY USER
ALREADY EXISTS
YPE INTO DATA BASE
YPE FROM CPFNEXT.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
LOWUPP
VERDSCT
UERROR
INSDSCT
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CRTENT
PURPOSE: CONTROL THE PROCESSING LOGIC FOR CREATING A NEW
 ENTITY CLASS.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTENT
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROL THE PROCESSING LOGIC FOR CREATING A NEW
ENTITY CLASS AND RELATED DATA IN A MODEL.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]
EC-NO DSPLY[S9(9)]

INCLUDE FILES:

UNIQENO
LISTNOS
CHKMODL

ROUTINES CALLED:

UERROR
CPFONE
VERENT
GETNN 1
INSEC
INSECNM
ADDATT
ADDKC
ADDKW

DOCGROUP PS41100 Module Documentation

NAME: CRTMACR
PURPOSE: CREATE FIRST MACRO OF VERIFICATION MODULE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTMACR
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CREATE THE FIRST MACRO OF THE VERIFICATION MODULE
MODIFIED MAR 16,1988 TO SUPPORT FIOP'S

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
TYPE-ID DSPLY[X]
MAX-SIZE DSPLY[S9(9)]
NO-OF-DEC DSPLY[S9(9)]
GEN-FILE-NAME DSPLY[X(80)]
FCB DSPLY[S9(9)]
MOD-APNAME DSPLY[X(10)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

CHKCDM
ERRCDM
MACDAT
SBSTLST
ERRFS
ERRPRO

ROUTINES CALLED:

GETHOST
GENFIL
UERROR
OPNFIL
RETVMOD
CDPIC8
ERRPRO
CDMACRX
APNAME
OUTFIL

DOCGROUP PS41100 Module Documentation

NAME: CRTMAP
PURPOSE: CREATES NEW CS-IS MAPPINGS IN THE CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTMAP
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CRTMAP VALIDATES ENTITY, AUC OR RC NAMES.
DEPENDING ON MAPPING PREFERENCE, BRANCH
TO PERTINENT ROUTINE.

MODIFIED 5/1/89: TO HANDLE CATEGORY RELATIONS
-

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
ADDMAP
VERENT
UERROR
CPFNXT
LOWUPP
VERRULE
INSRULE
VERAUC
VERCR
CONVCPF
VERLR
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CRTMOD
PURPOSE: CONTROL THE PROCESSING LOGIC IF CREATING A MODEL
 WITHIN THE SYSTEM.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THE CREATE MODEL COMMAND PROCESSOR WILL
 CONTROL THE PROCESSING LOGIC IF CREATING
 A MODEL WITHIN THE SYSTEM

ARGUMENTS:

CURRENT-MODEL-NO DSPLY[S9(9)]
CUR-MOD-NAME DSPLY[X(30)]

INCLUDE FILES:

UNIQENO
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERMOD
UERROR
GETNNUM
INSMOD
UWARN
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: CRTPART
PURPOSE: CREATES USER ENTERED HORIZONTAL PARTITIONS ON CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTPART
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CREATES NEW HORIZONTAL PARTITIONS ON CDM IF IT DOES NOT EXIST. (THERE MUST BE AT LEAST 2 DATA BASE/RECORD TYPES CREATED FOR AND ENTITY.)
- CALLS "VERECN" TO VERIFY THE ENTITY,
CALLS "VERHPN" TO VERIFY THAT THEPARTITION DOES NOT EXIST
CALLS "VERDBRT" TO VERIFY THE DATA BASE/RECORD TYPE
CALLS "VERPART" TO VERIFY THAT THE ENTITY NUMBER AND RECORD NUMBER ARE UNIQUE
CALLS "INSPART" TO INSERT THE PARTITION NUMBER

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
CONVCPF
VERECN
UERROR
VERHPN
VERDBRT
VERPART
INSPART
CPFNXT
ERRPRO

DOCGROUP PS41106 Module Documentation

NAME: CRTRELA
PURPOSE: CONTROLS THE LOGIC FOR VALIDATING AND CREATING A NEW
LINK RELATION
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTRELA
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE LOGIC FOR VALIDATING AND CREATING A NEW LINK RELATION WITHIN A MODEL. CREATE RELATION COMMAND CONSISTS OF A RELATION CLASS CLAUSE, AN OPTIONAL MIGRATES CLAUSE AND AN OPTIONAL KEYWORD CLAUSE.

ARGUMENTS:

MODEL-NO DSPLY[S9(9)]

INCLUDE FILES:

UNIQENO
LISTNOS
CHKMODL

ROUTINES CALLED:

UERROR
CPHONE
CPFNXT
VERENT
VERLR
GETNNUM
CHKCARD
INSLNKR
INSRC
ADDMIG
ADDKW

DOCGROUP PS41100 Module Documentation

NAME: CRTUNIN
PURPOSE: CREATE RECORD UNION
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTUNIN
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DEFINE A RECORD TYPE AS A UNION OF
CONCEPTUAL ENTITIES

ROUTINES CALLED:

DBLOOK
ADDUNIN

DOCGROUP PS41100 Module Documentation

NAME: CRTVIEW
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR THE CREATE VIEW
 COMMAND.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTVIEW
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC FOR
THE CREATE VIEW COMMAND

EXTRACT A VIEW-NAME, VERIFY THAT IT DOES
EXIST; THEN FETCH A UNIQUE VIEW NO.
FROM THE POOL AND
INSERT THE VIEW -
THEN PROCESS THE REMAINDER OF THE
VIEW COMMAND.

INCLUDE FILES:

ERRCDM
LISTNOS
UNIQENO
VWFROM
VWRETR
VWDI
BOOLST
CSQCLST
ATTRNOS

ROUTINES CALLED:

SET_LEVEL
GET_FIRST_SYMB
VERVIEW
UERROR
GETNNUM
INSVIEW
BLVWLST
REVIEW
FREE_SYMTAB
INSECRF

DOCGROUP PS41100 Module Documentation

NAME: CRTVMOD
PURPOSE: CREATE VERIFICATION MODULE FOR NEW DOMAIN VALUES AND
RANGES
LANGUAGE: VAX-11 COBOL
SOURCE FILE: CRTVMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-CREATE VERIFICATION MODULE FROM VALUES
AND RANGES STATED IN THE "CREATE DOMAIN"
STATEMENT. THE VALUES AND RANGES ARE
RETRIEVED FROM THEIR LSITS AND THE
CDM DATA BASE IS UPDATED WITH THESE
VALUES.

MODIFIED MAR 16, 1988 TO SUPPORT FIOPS
MODIFIED AUG 8, 1989 CODE & LOCAL VARIABLES
SUPPORTING THE VERIFICATION
MODULE WERE REMOVED.

ARGUMENTS:

DOM-NO DSPLY[S9(9)]
DOM-NAME DSPLY[X(30)]
TYPE-ID DSPLY[X]
MAX-SIZE DSPLY[S9(9)]
NO-OF-DEC DSPLY[S9(9)]
NDDL-STATUS DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
CHKCDM
ERRCDM
MACDAT
SBSTLST
ERRFS
ERRPRO

ROUTINES CALLED:

CPFONE
CPFNXT
INSVAL
UERROR
INSRNG
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DBLOOK
PURPOSE: DATA BASE - RECORD TYPE VERIFICATION
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DBLOOK
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- RETRIEVE DATABASE & RECORD NUMBER GIVEN
RECORD TYPE NAME AND DATA BASE NAME
- OBTAIN DATA BASE AND RECORD NAME FROM PARSER.
THEN GO AGAINST THE CDM TO OBTAIN
THE DATABASE AND RECORD NUMBER

ARGUMENTS:

DB-NAME	DSPLY[X(30)]
RT-ID	DSPLY[X(30)]
DB-ID	DSPLY[S9(9)]
RT-NO	DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERDB
UERROR
VERRT
ERRPRO

DOCGROUP PS41100 Module Documentation
NAME: DEFALG
PURPOSE: DEFINE A COMPLEX MAPPING ALGORITHM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFALG
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

DEFINE THE USE OF A PREVIOUSLY CREATED
SOFTWARE MODULE AS A COMPLEX MAPPING ALGORITHM.
INPUT AND OUTPUT PARAMETERS ARE DEFINED FOR
THE MODULE. THESE PARAMETERS MAY BE ONE OF
THE FOLLOWING: DATAITEMS, ATTRIBUTES,
DATAFIELDS, RECORDS OR CONSTANTS. A MODULE
RETURN-STATUS MUST BE THE LAST OUTPUT PARAMETER
AND MUST CONFORM TO THE IISS ERROR HANDLING
PHILOSOPHY.
VERIFY THAT THE SOFTWARE MODULE HAS BEEN
PREVIOUSLY DEFINED. RETRIEVE INTO CMP-TABLE
THE MODULES PARAMETERS IN SEQUENCE.
EXTRACT FROM THE PARSER LISTS, THE INPUTS
AND OUTPUTS TO THE ALGORITHM, ALSO POPULATE
CMP-TABLE. MAPPINGS MAY BE FROM EXTERNAL TO
CONCEPTUAL OR VICE VERSA AD THESE INVOLVE
PREVIOUSLY DEFINED DATAITEMS AND ATTRIBUTES.
MAPPINGS MAY ALSO BETWEEN CONCEPTUAL AND
INTERNAL AND THESE INVOLVE ATTRIBUTES AND FIELDS OR
RECORDS, WHICH MUST HAVE BEEN PREVIOUSLY DEFINED.
CHECKS ARE THEN PERFORMED TO ENSURE THE
LEGALITY OF THE ALGORITHM, BEFORE BEING
INSERTED IN THE CDM.
THE ALGORITHM COMMAND ALSO POPULATES THE
AUC_IS_MAPPING TABLE IN CASE OF CS-IS ALGORITHMS

INCLUDE FILES:

LISTNOS
ERRCDM
ALGTBL
ERRPRO

ROUTINES CALLED:

ALGCHK
ALGDTN
CPFONE
LOWUPP
CONVCPF
VERALGI
UERROR
VERPARM
VERDTYP
CPFCOR
CPFNXT

3-575

DOCGROUP PS41100 Module Documentation

NAME: DEFCODL
PURPOSE: PROCESSES THE DBMS TYPES: VAX-11, IDMS, IDS-II.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFCODL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE PROCESSES THE DBMS TYPES:

VAX-11
IDMS
IDS-II

First, extract the schema, subschema and area names. After verifying that the area name does not exist, insert into the cdm. Repeat till no more area names.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
UERROR
CPFNXT
INSSCH
VERAREA
UWARN
INSAREA
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFDB
PURPOSE: CONTROLS THE PROCESSING LOGIC FOR DEFINING A DATABASE
 TO THE SYSTEM.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFDB
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC FOR DEFINING A
DATABASE TO THE SYSTEM.
extract the dbms type ,data base name and host id
from the parser lists.
After verifying that the data base does not
already exist, insert it into the CDM. Now process the DBMS
type depending on whether it is Total, IMS, ORACLE, VAX-11,
IDMS or IDS-II.

INCLUDE FILES:

LISTNOS
UNIQENO
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
VERDBMS
UERROR
LOWUPP
VERDB
VERHST
GETNNUM
INSDB
DEFORCL
DEFCODL
DEFIMS
CHGLOBL
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFDBMS
PURPOSE: POPULATES DBMS TABLE AND DBMS_ON_HOST TABLE IF
NECESSARY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFDBMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- SETS UP AND CALLS INSDBMS WHICH
ADDS A DBMS_NAME AND DB_MODEL TO THE
DBMS TABLE. ALSO, FOR EACH HOST ID
SPECIFIED, THIS PROGRAM CALLS VERHST
TO VERIFY THAT THE HOST_ID IS ON THE
HOST TABLE AND THEN CALLS INSDBH TO
INSERT A DBMS / HOST ASSOCIATION IN
THE DBMS_ON_HOST TABLE.

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
UERROR
INSDBMS
INSDBH
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFHST
PURPOSE: POPULATES HOST TABLE AND DBMS_ON_HOST TABLE IF
NECESSARY
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFHST
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CALLS GETNNUM TO GET A HOST-NO FOR THE
HOST-ID. THEN CALLS INSHST TO INSERT INTO
THE HOST TABLE THE HOST-ID AND HOST-NO.
IF THERE ARE ANY DBMS SPECIFIED TO BE
ASSOCIATED WITH THE HOST-ID, INSDBH
IS CALLED TO ADD THE DBMS-NAME AND
HOST-ID TO THE DBMS_ON_HOST TABLE.

INCLUDE FILES:

ERRCDM
LISTNOS
UNIQENO
ERRPRO

ROUTINES CALLED:

CPFONE
VERHST
UERROR
GETNNUM
INSHST
INSDBH
CPFNXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFIMS
PURPOSE: PROCESSES THE DBMS TYPE: IMS.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFIMS
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE PROCESSES THE DBMS TYPE: IMS
First extract the PSB sequence number, key feedback length,
and PSB name from the parser lists. After verifying
that the psb name does not previously exist,
insert into PSB and
PSB PCB.

ARGUMENTS:

```
DB-ID                                DSPLY[S9(9)]
HOST-ID                             DSPLY[X(30)]
RETURN-STATUS                       DSPLY[S9(9)]
```

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
UERROR
CPFNXT
VERDPSB
INSPCB
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFORCL
PURPOSE: PROCESSES THE DBMS TYPE: ORACLE.
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFORCL
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE PROCESSES THE DBMS TYPE: ORACLE
Extract the password from the parser lists, then insert the
oracle database id and password.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

LISTNOS
ERRCDM
ERRPRO

ROUTINES CALLED:

CPFONE
UERROR
INSPWRD
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFPSB
PURPOSE: PROGRAM NAME DEFPSB
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFPSB
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- ADD A IMS PROGRAM SPECIFICATION BLOCK
(PSB) NAME TO THE PSB TABLE
-

INCLUDE FILES:

ERRCDM
LISTNOS
ERRPRO

ROUTINES CALLED:

CPFONE
VERPSB
UERROR
VERHST
VERDBH
INS1PSB
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFREC

PURPOSE: CONTROLS THE PROCESSING LOGIC FOR DEFINING A RECORD
FOR THE SYSTEM.

LANGUAGE: VAX-11 COBOL

SOURCE FILE: DEFREC

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE CONTROLS THE PROCESSING LOGIC FOR DEFINING A
RECORD FOR THE SYSTEM.

AFTER EXTRACTING THE DB-ID AND RT-ID, VERIFY THAT THE RECORD
TYPE DID NOT PREVIOUSLY EXIST. IF IT DID NOT, PROCESS THE
AREA INFORMATION AND FIELD INFORMATION.

INCLUDE FILES:

LISTNOS

ERRCDM

UNIQENO

ERRPRO

ROUTINES CALLED:

GETRDH

UERROR

VERRT

GETNNUM

INSRTYP

DEFFLD

DEFAREA

VERAREA

INSAREA

INSDAA

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEFSET

PURPOSE: CONTROLS THE PROCESSING LOGIC FOR THE DEFINE SET
COMMAND.

LANGUAGE: VAX-11 COBOL

SOURCE FILE: DEFSET

SOURCE FILE TYPE: COB

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

CONTROLS THE PROCESSING LOGIC FOR THE
DEFINE SET COMMAND.

THE FOLLOWING DBMS ARE LEGAL FOR THIS PROCESS:

TOTAL, IMS, VAX-11, IDMS, IDS

DBMS	RULES					
ORACLE	TOTAL	IMS	* VAX-11	IDMS	IDS	
* CODASYL DBMS'S			*			
RULE	*					
SETS	NO	YES	YES	YES	YES	YES
EQUIRED/ PTIONAL	NO	NO	NO	YES	YES	YES
OR MEMBERS						
INKAGE/ ATA FIELD	NO	YES	NO	NO	NO	NO
INGLE						
EMBER	NO	YES	YES	YES	YES	YES
LLOWED						
ULTIPLE						
EMBERS	NO	NO	NO	YES	YES	YES

INCLUDE FILES:

LISTNOS
UNIQENO

ROUTINES CALLED:

GETDBST
UERROR
VERRSET
CPFONE
VERRT
CPFNXT
INSSTM
GETNNUM
INSRSET
VERDTFL
INSDSL
CPFCOR
LOWUPP

DOCGROUP PS41100 Module Documentation

NAME: DEFSMOD
PURPOSE: DEFINE SOFTWARE MODULE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEFSMOD
SOURCE FILE TYPE: COB
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- CREATE SOFTWARE MODULE AND MODULE
PARAMETERS

INCLUDE FILES:

ERRCDM
LISTNOS

ROUTINES CALLED:

CPFONE
VERSMOD
UERROR
INSSMOD
VERDT
VERAPRM
INSAPRM
CPFNXT

DOCGROUP PS41100 Module Documentation

NAME: DEL1AIM
PURPOSE. DELETE A MAPPED TAG GIVEN THE TAG_NO, EC_NO, AND
RT_NO
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEL1AIM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES FROM AUC_IS_MAPPING GIVEN THE KEY_CLASS MEMBERS, TAG, RECORD, AND ENTITY NUMBER.

ARGUMENTS:

TAG-NO	DSPLY[S9(9)]
EC-NO	DSPLY[S9(9)]
RT-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEL1ASM
PURPOSE: PROGRAM NAME DEL1ASM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEL1ASM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES ONE AUC SET MAPPING FROM THE CDM

ARGUMENTS:

DB-NO	DSPLY[S9(9)]
SET-NAME	DSPLY[X(30)]
TAG-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEL1PDF
PURPOSE: PROGRAM NAME DEL1PDF
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEL1PDF
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES ONE DATA FIELD MAPPING FROM
PROJECT DATA FIELD TABLE IN THE CDM.

ARGUMENTS:

DB-NO DSPLY[S9(9)]
REC-NAME DSPLY[X(30)]
DF-NAME DSPLY[X(30)]
TAG-NO DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DEL1PRF
PURPOSE: PROGRAM NAME DEL1PRF
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DEL1PRF
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES A SINGLE MAPPING FROM THE CDM
FOR A GIVEN TAG NUMBER AND PREFERENCE

ARGUMENTS:

TAG-NO DSPLY[S9(9)]
PREF-NO DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELAAA
PURPOSE: DROP THE AREA-ID FROM CDM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELAAA
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES AREA FROM FROM CDM

ARGUMENTS:

DB-ID DSPLY[S9(9)]
RT-ID DSPLY[X(30)]
AREA-ID DSPLY[X(30)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELACON
PURPOSE: DELETE ATTRIBUTE CONSTRAINTS
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELACON
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

DELETE ATTRIBUTE CONSTRAINTS FROM
AUC_CONSTRAINT

ARGUMENTS:

TAG-NO	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELAISM
PURPOSE: PROGRAM NAME DELAISM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELAISM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES ALL AUC MAPPINGS FROM THE CDM
FOR A GIVEN TAG NUMBER.

ARGUMENTS:

TAG-NO	DSPLY[S9(9)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELAPRM
PURPOSE: DELETE AN OCCURRENCE FROM MODULE_PARAMETER
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELAPRM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETE AN OCCURRENCE FROM MODULE_PARAMETER
GIVEN MODULE NAME (MOD_ID) AND PARAMETER
NAME (PARM_NAME)

ARGUMENTS:

MOD-ID DSPLY[X(10)]
PARM-NAME DSPLY[X(30)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELAREA
PURPOSE: NDML COMMAND TO DELETE AREAS/FILES ASSOC. WITH
 CODASYL/TOTAL DB
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELAREA
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

PRODUCES AN NDML STATEMENT TO DELETE THE AREAS (TOTAL
FILES) ASSOCIATED WITH A CODASYL (TOTAL) DATABASE IN THE
DATA BASE AREA TABLE OF THE CDM.
DELETE THE AREA ID BASED ON THE DATA BASE ID.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
AREA-NAME	DSPLY[X(30)]
RET-STATUS	DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELASM
PURPOSE: PROGRAM NAME DELASM
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELASM
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

- DELETES ALL SET MAPPINGS WITH
A SPECIFIED TAG NUMBER.

ARGUMENTS:

TAG-NO DSPLY[S9(9)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELCONI
PURPOSE: DELETE CONSTRAINT INPUTS ASSOCIATED WITH AN AUC
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELCONI
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

-

THIS ROUTINE DELETES ALL CONSTRAINT INPUTS
ASSOCIATED WITH AN AUC

ARGUMENTS:

TAG-NO	DSPLY[S9(9)]
RETURN-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

ERRCDM
SRVRET
ERRPRO

ROUTINES CALLED:

ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELDBDF
PURPOSE: DELETE ALL DATA FIELD ASSOCIATIONS WITH THE DATABASE
LANGUAGE: VAX-11 COBOL
SOURCE FILE: DELDBDF
SOURCE FILE TYPE: PRC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

THIS ROUTINE WAS DESIGNED FOR USE WITH
DRPDB (DROP DATA BASE)

THIS ROUTINE VERIFIES THE EXISTANCE OF A DATA FIELD,
SELECT A DATA FIELD ONE AT A TIME IN THE NDML LOOP,
DELETES THE DATA FIELD, DELETES THE TEXTUAL DESCRIPTION,
AND ADDS THE REUSABLE NUMBER BACK IN THE CDM.
IT HAS ONE INPUT PARAMETER (DB-ID) AND ONE
OUTPUT PARAMETER FOUND-STATUS (0 GOOD AND -1
AN ERROR HAS OCCURRED. ALL ERRORS ARE COVERED
BY ERROR STATEMENTS IN THE ROUTINE.

ARGUMENTS:

DB-ID	DSPLY[S9(9)]
FOUND-STATUS	DSPLY[S9(9)]

INCLUDE FILES:

SRVRET
UNIQENO
ERRPRO

ROUTINES CALLED:

VERDFUS
UERROR
DELDFL3
ADDRNUM
DELTEXT
ERRPRO

DOCGROUP PS41100 Module Documentation

NAME: DELDBH

PURPOSE: NDML STATEMENT TO DELETE DBMS/HOST DEFINITION FROM
DBMS_ON_HOST TABL

LANGUAGE: VAX-11 COBOL

SOURCE FILE: DELDBH

SOURCE FILE TYPE: PRC

HOST:

SUBSYSTEM: CDM

SUBDIRECTORY: NDDL

DESCRIPTION:

- PRODUCES A DELETE NDML STATEMENT TO
DELETE A DBMS / HOST DEFINITION FROM THE
DBMS_ON_HOST TABLE.

ARGUMENTS:

HOST-ID DSPLY[X(30)]
DBMS-NAME DSPLY[X(30)]
RET-STATUS DSPLY[X(5)]

INCLUDE FILES:

ERRCDM
ERRPRO

ROUTINES CALLED:

ERRPRO