

IMS TRAINING SUMMARY

DATA BASE STRUCTURE

HIERARCHY

PARENT/CHILD  
LEVEL NUMBERS  
TOP BOTTOM/LEFT RIGHT

DATA BASE ACCESS

(2) CONTROL BLOCKS USED TO ACCESS A DATA BASE STRUCTURE  
THRU THE APPLICATION PROGRAM:

-DBD: DESCRIBES PHYSICAL STRUCTURE OF DATA BASE  
DB NAME  
SEGMENT NAME  
KEY FIELD/KEY SIZE  
SEARCH FIELDS

-DB PCB: DESCRIBES PROGRAM VIEW OF DATA BASE  
PCB TYPES  
ICOPY STMT  
PROCESSING OPTIONS

PROCESSING

ENTRY STMT: IMS/VS PASSES CONTROL TO APPLICATION PROGRAM

GOBACK: RETURNS CONTROL TO IMS/VS

DLI: ACCESS METHOD, HANDLES DATA BASE PROCESSING FUNCTIONS

HOW PROGRAM COMMUNICATES ITS REQUEST TO IMS/VS

EXCHANGE INFORMATION WITH DLI: DB PCB MASK

I/O AREA

## IMS TRAINING SUMMARY

## MECHANICS OF DB CALLS

ENTRY STMT: PCB'S MUST BE LISTED IN SAME ORDER AS IN PSB

CALL "CBLTCLI" USING IMS FUNCTION,

DB PCB,  
I/C AREA,  
SSA.

## IMS FUNCTIONS:

GU (GHU) - SETS PARENTAGE (POSITION) FOR LATER CALLS  
 GN (GHN) IF NO PARENTAGE SET, RETRIEVES SEGMENT FROM  
 & BEGINNING OF DATA BASE ELSE GETS NEXT AS  
 GNP (GENP) SPECIFIED BY PREVIOUSLY SET PARENTAGE &  
 CURRENT SSA USED.  
 ISRT - INSERTS A PREVIOUSLY NON-EXISTING SEGMENT  
 INTO THE DATA BASE  
 REPL - REPLACES A PREVIOUSLY EXISTING SEGMENT THAT  
 HAS BEEN UPDATED INTO THE DATA BASE

DB PCB MASKS: DBD NAME  
 SEG-LEVEL  
 C STATUS  
 PREC OPTIONS  
 DLI-RESRV  
 KEY FEEDBACK AREA

I/O AREA: ICCPY  
 HARDCODE

SSA: UNQUALIFIED  
 FULLY QUALIFIED

CALL STATUS CODES: GU BB, GE, GB  
 GN BB, GB  
 GNP - BB, GB, GA  
 ISRT BB, GE, II  
 REPL BB, DJ

IMS TRAINING SUMMARY

MECHANICS OF IP CALLS

TYPES OF IP PCB'S: IC-PCB  
ALT-IC PCB: MODIFIABLE & NON-MODIFIABLE  
TCHZIP-PCB

CALL "CBLTDLI" USING IMS-FUNCTION,  
TP-PCB,  
I/O AREA.

IMS FUNCTIONS:

- GU - RETRIEVES FIRST SEGMENT OF MESSAGE
- GN - RETRIEVES SUBSEQUENT SEGMENTS OF MESSAGE
- ISRT - INSERTS MESSAGE INTO IMS MESSAGE QUES
- CHNG - USED IN NON-MODIFIABLE PCB TO SET DESTINATION
- PURG - RELEASES MESSAGE TO IMS MESSAGE QUE

TP PCB MASKS: DBD NAME  
SEG-LEVEL  
C-STATUS

I/O AREA: MFS LENGTH  
IMS RESERVE  
TRANSACTION CODE  
DATA STRING

CALL STATUS CODES: GU - BB, GE, CC  
GN - BB, CD  
ISRT - BB, CH  
CHNG - BB, AL  
PURG - BB, A3

ON LINE PROCESSING

ON-LINE PROCESSING DURING THE DAY WHEN THE SYSTEM IS IN HEAVY USE. MAIN CONSIDERATION IS EFFICIENCY. LIMIT NUMBER OF DB CALLS (I/O), ETC.

(3) TYPES OF IMS/VIS APPLICATION PROGRAMS

MESSAGE PROCESSING PROGRAMS (MPP'S)

FAST PATH PROGRAMS

BATCH MESSAGE PROGRAMS (BMP'S)

MPP'S

COMMUNICATE WITH TERMINALS & OTHER PROGRAMS THRU MESSAGE Q'S  
- CAN ACCESS MESSAGE Q'S & DATA BASE RECORDS

EXAMPLE: /FCR FCHOCS

FILL IN SCREEN & ENTER, THIS REQUEST SENDS A MESSAGE TO THE MESSAGE Q'S. THIS SCHEDULES A CONTROL PROGRAM TO PROCESS YOUR REQUEST TO SUBMIT A CHORE. THIS PROGRAM RESPONDS TO YOU THAT YOUR CHORE HAS BEEN SUBMITTED TO IJP.

EAST PATH

EMPHASIZES FAST PROCESSING (QUICKER RESPONSE THAN MPP'S)  
- USES SIMPLE DATA BASE STRUCTURES (ROCT ONLY DB'S)

BMP'S

DRIVEN BY JCL (CHORE) UNLIKE MPP'S THAT ARE DRIVEN BY A MESSAGE SCHEDULED BY IMS/VIS  
- CAN ACCESS MSG Q'S, DATA BASE RECORDS AND OS FILES

IMS CALLS

FORMAT

CALL "CBLTDLI" USING IMS-FUNCTION

PCB

I/O RECORD

SSA (DEPENDS ON TYPE OF CALL).

REPLACE AND DELETE CALLS

1. YOU MUST DO A HOLD CALL ON THE RECORD
2. UPDATE RECORD FOR CHANGE
3. REPLACE OR DELETE RECORD (NO SSA NEEDED)

INSERT CALL

1. YOU MUST CREATE RECORD
2. YOU MUST HAVE A UNIQUE KEY
3. USING QUALIFIED SSA. INSERT RECORD

GET CALLS

1. GET UNIQUE CALLS  
MUST HAVE QUALIFIED SSA TO RETRIEVE  
SPECIFIC RECORD (SEGMENT NAME AND  
RECORD KEY)
2. GET NEXT CALLS  
MUST HAVE UNQUALIFIED SSA TO RETRIEVE  
A RANDOM RECORD (SEGMENT NAME ONLY)

ENTRY STATEMENT

ENTRY "DLITCBL" USING IO-PCB-MASK

ALT-IO-PCB-MASK

FD00-PCB

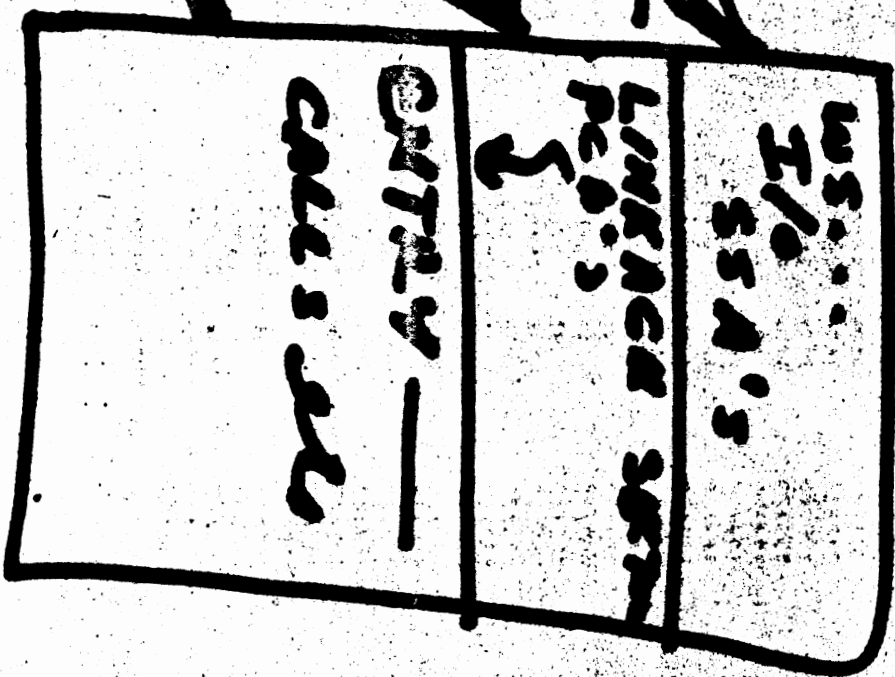
FM00-PCB

AA00-PCB.

←  
MUST AGREE WITH PSB

T.B. Name

CTC 1/1





# DLI CALL

CALL "CBLTDLI" USING

[PARAM-COUNT],

IMS-FUNCT, PCB-NAMES

I-O-AREA,

SSA-1, ..... SSA-N.