Adabas Commands

Each Adabas command is described in the table below; select a command to see detailed control block and buffer information for it. In addition, the following summary tables are provided showing the use of the ACB, ACBX, and buffers by all Adabas commands:

- *Adabas Command ACBs*

- *ACB Command Buffers*

- *Adabas Command ACBXs*

- *ACBX Command ABDs and Buffers*

Note:
We recommend that you set unused ACB and ACBX fields to binary zeros before a direct call is initiated.

Command Code	Summary	Description
A1	Update record	Update record(s) (hold option)
BT	Backout transaction	Remove database updates for ET logic users
C1	Write checkpoint	Write command ID, PLOG, RABN RABN checkpoint, buffer flush option
C3	Write SYNX-03 checkpoint	Write SYNX-03 checkpoint for exclusive control update users; option to store user data
C5	Write user data to protection log	Write user data on SIBA/PLOG
CL	Close user session	End/ET session and update database
E1	Delete record / refresh file	Delete record (hold option) or refresh file
ET	End transaction	End and save current transaction
HI	Hold record	Prevent record update by other users
L1	Read record	Read record of specified ISN
L2	Read physical sequential record	Read records in physical order
L3	Read logical sequential record	Read records in descriptor value order
L4	Read and hold record	Read record and hold, "wait for held record/issue return code" option
L5	Read physical sequential record and hold	Read records in physical order and hold, "wait/issue return code" option

Command Code	Summary	Description
L6	Read logical sequential record and hold	Read records in descriptor value order with "wait/issue return code" option
L9	Read descriptor values	Read the values of a specified descriptor
LF	Read field definition	Read the characteristics of all fields in a file
N1	Add record with Adabas-assigned ISN	Add new database record with ISN assigned by Adabas
N2	Add record with user-assigned ISN	Add new database record with user-assigned ISN
OP	Open user session	Open user session
RC	Release command ID or global format ID	Release one or more command IDs or a global format ID for the issuing user
RE	Read ET user data	Read ET data for this, another, or all users
RI	Release held record and ISN	Release held record and ISN
S1	Find records	Return count and ISNs of records satisfying the search criterion
S2	Find records in user-specified order	Return count of records and ISNs in user-specified order
S4	Find records and hold	Return count and ISNs of records satisfying the search criterion and put first ISN in list on hold
S5	Find coupled ISNs	Return or save a list of coupled ISNs for the specified file
S8	Process ISN lists	Combine two ISN lists from the same file with an AND, OR, or NOT operation
S9	Sort ISN lists	Sort ISN list in ascending ISN or descriptor-specified sequence

Adabas Command ACBs

Field	Position	Format	A1	BT	C1	C3	C5	CL	E1	ET	HI	L1/L4	L2/L5	L3/L6	L9	LF	N1/N2	OP	RC	RE	RI	S1/S2/S4	S5	S8	S9
ACBTYPE	1	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
reserved	2	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBCMD	3-4	alphanumeric	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U
ACBCID	5-8	alpha/bin	F/U	--/A	F/A	---	---	--/A	F/U	--/A	---	F/U	F/U	F/U	F/U	F/U	F/U	--/A	F/U	--/A	---	F/U	F/U	F/U	F/U
ACBFNR	9-10	binary	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U
ACBRSP	11-12	binary	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A
ACBISN	13-16	binary	F/U	---	---	---	F/U	--/A	F/U	---	F/U	F/U	F/A	F/A	--/A	---	F/*	--/A	---	F/A	F/U	--/A	F/A	---	---
ACBISL	17-20	binary	--/A	F/U	---	---	---	--/A	--/A	F/U	---	F/U	F/U	F/U	--/A	---	--/A	F/A	---	F/A	F/U	F/U	F/U	F/U	F/U
ACBISQ	21-24	binary	--/A	---	---	---	---	--/A	--/A	--/A	---	---	---	---	--/A	---	--/A	F/A	---	F/A	---	F/A	--/A	---	F/A
ACBFBL	25-26	binary	F/U	---	---	---	F/U	---	---	---	---	F/U	F/U	F/U	F/U	F/U	F/U	F/U	---	---	---	F/U	---	---	---
ACBRBL	27-28	binary	F/U	---	---	F/U	F/U	F/U	---	F/U	---	F/U	F/U	F/U	F/U	F/U	F/U	F/U	---	F/U	---	F/U	---	---	---
ACBSBL	29-30	binary	---	---	---	---	---	---	---	---	---	---	---	F/U	F/U	---	---	---	---	---	---	F/U	---	---	---
ACBVBL	31-32	binary	---	---	---	---	---	---	---	---	---	---	---	F/U	F/U	---	---	---	---	---	---	F/U	---	---	---
ACBIBL	33-34	binary	---	F/U	---	---	---	---	---	F/U	---	F/U	F/U	F/U	F/U	---	---	---	---	---	---	F/U	F/U	F/U	F/U
ACBCOP1	35	alphanumeric	F/U	F/U	F/U	---	F/U	---	F/U	F/U	F/U	F/U	F/U	F/U	F/U	---	---	F/U	F/U	F/U	---	F/U	F/U	F/U	F/U
ACBCOP2	36	alphanumeric	F/U	F/U	F/U	F/U	---	F/U	F/U	F/U	---	F/U	---	F/U	F/U	F/U	---	F/U	F/U	---	---	F/U	F/U	F/U	F/U
ACBADD1	37-44	alpha/bin	---	---	---	---	F/U	---	---	---	---	---	---	F/A	F/U	---	---	F/U	F/U	F/**	---	F/U	F/U	F/U	F/U
ACBADD2	45-48	alpha/bin	--/A	---	---	---	---	---	---	---	---	--/A	--/A	--/A	--/A	---	--/A	--/A	---	--/A	---	--/A	---	---	F/A
ACBADD3	49-56	alphanumeric	F/A	---	---	---	---	---	F/A	---	---	F/A	F/A	F/A	F/A	F/A	F/A	F/A	---	---	---	F/A	F/A	F/A	F/A
ACBADD4	57-64	alphanumeric	F/A	---	---	---	---	---	F/A	---	---	F/A	F/A	F/A	---	---	F/A	F/A	---	---	---	F/A	---	---	---
ACBADD5	65-72	alpha/bin	F/U	---	---	---	---	---	---	---	---	F/U	F/U	F/U	F/U	---	F/U	--/A	F/U	---	---	F/U	---	---	F/A
ACBCMDT	73-76	binary	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A
ACBUSER	77-80	---	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U

Key:

alpha/bin: alphanumeric/binary

--: not applicable

/: if data supplied before the Adabas call, action code is to the left of the slash; if data supplied after the Adabas call, action code is to the right of the slash

F: Supplied by user

A: Supplied by Adabas

U: Unchanged after Adabas call

*: "A" N1; "U" for N2

**: If Command Option 1 specifies "A", this field returns the user ID for the user data contained in the record buffer at the end of this and each following RE operation.

We recommend that you set unused ACB fields to binary zeros before a direct call is initiated.

ACB Command Buffers

Buffer	Command																						
	A1	BT	C1	C3	C5	CL	E1	ET	HI	L1/L4	L2/L5	L3/L6	L9	LF	N1/N2	OP	RC	RE	RI	S1/S2/S4	S5	S8	S9
Format	F/U	----	----	*/	*/	*/	----	*/----	----	F/U	F/U	F/U	F/U	*/	F/U	*/	----	*/	----	F/U	*/	*/	*/
Record	F/U	----	----	F/U	F/U	F/U	----	F/U	----	--/A	--/A	--/A	--/A	--/A	F/U	F/A	----	--/A	----	--/A	*/	*/	*/
Search	----	----	----	----	----	----	----	----	----	----	----	F/U	F/U	----	----	----	----	----	----	F/U	*/	*/	*/
Value	----	----	----	----	----	----	----	----	----	----	----	F/U	F/U	----	----	----	----	----	----	F/U	*/	*/	*/
ISN	----	F/U	----	----	----	----	----	F/U	----	--/A	F/U	F/U	--/A	----	----	----	----	----	----	--/A	--/A	--/A	F/A

Key:

----:	not applicable
/:	if data supplied before the Adabas call, action code is to the left of the slash; if data supplied after the Adabas call, action code is to the right of the slash
F:	Supplied by user
A:	Supplied by Adabas
U:	Unchanged after Adabas call
*:	Not used, but must be included in parameter list of call statement

Adabas Command ACBXs

Field	Position	Format	A1	BT	C1	C3	C5	CL	E1	ET	HI	L1/L4	L2/L5	L3/L6	L9	LF	N1/N2	OP	RC	RE	RI	S1/S2/S4	S5	S8	S9
ACBXTYP	1	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXVER	3-4	binary	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U
ACBXLEN	5-6	binary	F/U	---	F/U	F/U	F/U	F/U	F/U	F/U	---	F/U	F/U	---	F/U	---	F/U	F/U	F/U	F/U	---	---	---	---	---
ACBXCMD	7-8	alphanumeric	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U
ACBXRSP	11-12	binary	--/U	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A
ACBXCID	13-16	alpha/bin	F/U	--/A	F/A	F/U	---	F/A	F/U	F/U	F/U	F/U	F/U	F/U	F/U	---	F/U	--/A	F/U	F/U	---	F/U	F/U	F/U	F/U
ACBXDBID	17-20	numeric	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U
ACBXFNR	21-24	numeric	F/U	F/U	F/U	F/U	F/U	---	F/U	---	F/U	F/U	F/U	F/U	F/U	F/U	F/U	---	F/U	F/U	F/U	F/U	F/U	F/U	F/U
ACBXISN	29-32	binary	F/U	---	---	---	---	---	F/U	---	F/U	F/U	F/U	F/U	--/A	---	F/*	--/A	---	F/A	F/U	--/A	F/U	F/U	--/A
ACBXISL	37-40	binary	--/A	F/U	---	---	---	---	--/A	F/U	---	F/U	F/U	F/A	F/A	---	--/A	F/A	---	F/A	---	F/U	F/A	F/U	F/U
ACBXISQ	45-48	binary	--/A	---	---	---	---	--/A	--/A	--/A	---	---	---	---	--/A	---	--/A	F/A	---	---	---	F/A	--/A	--/A	F/A
ACBXCOP1	49	alphanumeric	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	F/U	---	---	F/U	F/U	F/U	---	F/U	F/U	F/U	F/U
ACBXCOP2	50	alphanumeric	F/U	F/U	F/U	---	F/U	F/U	F/U	F/U	---	F/U	---	F/U	F/U	F/U	---	F/U	F/U	---	---	F/U	F/U	F/U	F/U
ACBXADD1	57-64	alpha/bin	---	---	---	F/U	F/U	---	---	---	---	---	---	F/A	F/U	---	---	F/U	F/U	F/**	---	F/U	F/U	F/U	F/U
ACBXADD2	65-68	alphanumeric	--/A	---	---	---	---	---	---	---	---	--/A	--/A	--/A	---	--/A	--/A	--/A	---	--/A	---	--/A	---	---	---
ACBXADD3	69-76	alpha/bin	F/A	---	---	---	---	---	F/A	---	---	F/A	F/A	F/A	---	F/A	F/A	F/A	---	---	---	F/A	F/A	F/A	F/A
ACBXADD4	77-84	alphanumeric	F/A	---	---	---	---	---	F/A	---	---	F/A	F/A	F/A	---	F/A	F/A	F/A	---	---	---	F/A	F/A	---	F/A
ACBXADD5	85-92	alpha/bin	F/U	---	---	---	---	---	---	---	---	F/U	F/U	F/U	F/U	F/U	F/U	--/A	F/U	---	---	F/U	F/U	F/U	F/U
ACBXERRA	109-112	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXERRB	113-114	alphanumeric	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXERRC	115-116	binary	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	---	--/A	--/A
ACBXERRD	117	alphanumeric	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXERRF	119-120	numeric	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXSUBR	121-122	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXSUBS	123-124	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXSUBT	125-128	alphanumeric	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXLCMP	129-136	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXLDEC	137-144	binary	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACBXCMDT	145-152	binary	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A	--/A
ACBXUSER	153-168	---	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U	--/U

Key:

alpha/bin: alphanumeric/binary

---: not applicable

/: if data supplied before the Adabas call, action code is to the left of the slash; if data supplied after the Adabas call, action code is to the right of the slash

F: Supplied by user

A: Supplied by Adabas

U: Unchanged after Adabas call

*: "A" N1; "U" for N2

**: If Command Option 1 specifies "A", this field returns the user ID for the user data contained in the record buffer at the end of this and each following RE operation.

We recommend that you set unused ACBX fields to binary zeros before a direct call is initiated.

The following fields are reserved or are not currently supported by Adabas and are therefore not included in this table: ACBXRSV1 (2), ACBXRSV2 (9-10), ACBXISNG (25-32), ACBXISLG (33-40), ACBXISQG (41-48), ACBXCOP3 - ACBXCOP8 (51-56), ACBXADD6 (93-100), ACBXRSV3 (101-104), ACBXERRG (105-112), ACBXERRE (118), and ACBXRSV4 (169-193).

ACBX Command ABDs and Buffers

ABD/Buffer	Command																						
	A1	BT	C1	C3	C5	CL	E1	ET	HI	L1/L4	L2/L5	L3/L6	L9	LF	N1/N2	OP	RC	RE	RI	S1/S2/S4	S5	S8	S9
Format	F/U	----	----	*/	*/	*/	----	*/----	----	F/U	F/U	F/U	F/U	*/	F/U	*/	----	*/	----	F/U	----	----	----
Record	F/U	----	----	F/U	F/U	F/U	----	F/U	----	----/A	----/A	----/A	----/A	----/A	F/U	F/A	----	----/A	----	----/A	----	----	----
Search	----	----	----	----	----	----	----	----	----	----	----	F/U	F/U	----	----	----	----	----	----	F/U	----	----	----
Value	----	----	----	----	----	----	----	----	----	----	----	F/U	F/U	----	----	----	----	----	----	F/U	----	----	----
ISN	----	F/U	----	----	----	----	----	F/U	----	----	----	----	----	----	----	----	----	----	----	----/A	----/A	----/A	F/A
Multifetch	----	----	----	----	----	----	----	----	----	----/A	----/A	F/U	----/A	----	----	----	----	----	----	----	----	----	----

Key:

----	not applicable
/:	if data supplied before the Adabas call, action code is to the left of the slash; if data supplied after the Adabas call, action code is to the right of the slash
F:	Supplied by user
A:	Supplied by Adabas
U:	Unchanged after Adabas call
*:	Not used, but must be included in parameter list of call statement

A1 Command -- Update Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

● ACB Control Block Structure

● ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric / binary	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	U
ISN Lower Limit	17-20	binary	--	A [1]
ISN Quantity	21-24	binary	--	A [1]
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
	29-34	--	--	--
Command Option 1 / 2	35-36	alphanumeric	F	U
	37-44	--	--	--
Additions 2	45-48	alphanumeric / binary		A
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Notes

1. These fields are used and not reset by Adabas if coupled files are used.

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	binary	---	---
Version Indicator	3-4	binary	F	U
	5-6	binary	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	binary	---	---
Response Code	11-12	binary	---	U
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	U
	33-36	---	---	---
ISN Lower Limit	37-40	binary	---	A [1]
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A [1]
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-64	---	---	---

Field	Position	Format	Before Adabas Call	After Adabas Call
Additions 2	65-68	binary		A
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
	169-193	---	---	---

Notes

1. These fields are used and not reset by Adabas if coupled files are used.

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

---   Not used

BT Command -- Back Out Transaction

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	binary	--	A
File Number *	9-10	binary	F *	U
Response Code	11-12	binary	--	A
	13-16	--	--	--
ISN Lower Limit	17-20	binary	F	U
	21-32	--	--	--
ISN Buffer Length **	33-34	binary	F **	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
	37-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
ISN **	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Required only if Command Option 2 is specified
**	Required only if Command Option 1 is specified
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	binary	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	---	A
Database ID*	17-20	numeric	F*	U
File Number*	21-24	numeric	F*	U
	25-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	45-48	---	---	---
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
	169-193	---	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
ISN **	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Required only if Command Option 2 is specified
**	Required only if Command Option 1 is specified
---	Not used

C1 Command -- Record Checkpoint

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	A
File Number *	9-10	binary	F	U
Response Code	11-12	binary	--	A
	13-34	--	--	--
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
	37-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

None used.

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	A
Database ID*	17-20	numeric	F	U
	21-48	---	---	---
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
	169-193	---	---	---

ABDs and Buffers

None used.

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).
---	Not used

C3 Command -- Write Checkpoint

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
	5-8	--	--	--
File Number **	9-10	binary	F	U
Response Code	11-12	binary	--	A
	13-26	--	--	--
Record Buffer Length	27-28	binary	F	U
	29-35	--	--	--
Command Option 2	36	alphanumeric	F	U
	37-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	
Record	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but must be included in parameter list of call statement

**   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
---	13-16	---	---	---
Database ID**	17-20	numeric	F	U
	21-49	---	---	---
Command Option 2	50	alphanumeric	F	U
	51-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
	169-193	---	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	*	
Record	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Not used but should be included in Adabas call or one will be automatically generated.
**	A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).
--	Not used

C5 Command -- Write User Data to PLOG

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
	5-8	--	--	--
File Number **	9-10	binary	F	U
Response Code	11-12	binary	--	A
	13-26	--	--	--
Record Buffer Length	27-28	binary	F	U
	29-34	--	--	--
Command Option 1***	35	alphanumeric	F	U
	36	--	--	--
Additions 1***	37-44	alphanumeric	F	U
	45-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	
Record	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but must be included in parameter list of call statement

**   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

   However, if you are using Event Replicator for Adabas and the Command Option 1 field is set to "R", a file number must be specified to identify the file to which the C5 command applies. For more information, read your Event Replicator for Adabas documentation.

***   Only used if you are using Event Replicator for Adabas. For more information, read your Event Replicator for Adabas documentation.

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
	13-16	---	---	---
Database ID**	17-20	numeric	F	U
File Number***	21-24	numeric	F	U
	25-48	---	---	---
Command Option 1***	49	alphanumeric	F	U
	50-56	---	---	---
Additions 1***	57-64	alphanumeric/ binary	F	U
	65-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	*	
Record	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but should be included in Adabas call or one will be automatically generated.

**   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

           However, if you are using Event Replicator for Adabas and the Command Option 1 field is set to "R", a file number must be specified to identify the file to which the C5 command applies. For more information, read your Event Replicator for Adabas documentation.

***   Only used if you are using Event Replicator for Adabas. For more information, read your Event Replicator for Adabas documentation.

---   Not used

CL Command -- Close Session

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	binary	--	A
File Number ***	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	--	A
ISN Lower Limit	17-20	binary	--	A
ISN Quantity	21-24	binary	--	A
	25-26	--	--	--
Record Buffer Length	27-28	binary	F *	U
	29-35	--	--	--
Command Option 2	36	alphanumeric	F	U
	37-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format *	**	--
Record *	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Required only if user data is to be stored

**   Not used but must be included in parameter list of call statement if user data to be stored

***   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	---	A
Database ID***	17-20	numeric	F	U
	21-28	---	---	---
ISN	29-32	binary	---	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	---	A
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A
	49	---	---	---
Command Option 2	50	alphanumeric	F	U
	51-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format *	**	--
Record *	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Required only if user data to be stored

**   Not used but should be included in Adabas call or one will be automatically generated.

***   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

--   Not used

E1 Command -- Delete Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric / binary	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	U
ISN Lower Limit	17-20	binary	--	A[1]
ISN Quantity	21-24	binary	--	A[1]
	25-34	--	--	--
Command Option 1	35	alphanumeric	F	U
	36-48	--	--	--
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
	65-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Notes

1. These fields are used and not reset by Adabas if coupled files are used.

Buffer Areas

None used.

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28		---	---
ISN	29-32	binary	F	U
	33-36		---	---
ISN Lower Limit	37-40	binary	---	A [1]
	41-44		---	---
ISN Quantity	45-48	binary	---	A [1]
Command Option 1	49	alphanumeric	F	U
	50-68	---	---	---
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
	85-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

Notes

1. These fields are used and not reset by Adabas if coupled files are used.

ABDs and Buffers

None used.

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
---	Not used

ET Command -- End Transaction

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	binary	--	A
File Number****	9-10	binary	F	U
Response Code	11-12	binary	--	A
	13-16	--	--	--
ISN Lower Limit	17-20	binary	F	U
ISN Quantity	21-24	binary	--	A
	25-26	--	--	
Record Buffer Length	27-28	binary	F *	U
	29-32	--	--	--
ISN Buffer Length **	33-34	binary	F **	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
	37-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format *	***	--
Record *	F	U
ISN **	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Required only if ET data is to be stored
**	Required for hold ISN option; optional for multifetch option
***	Not used but must be included in parameter list of call statement if ET data is to be stored
****	A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	---	A
Database ID****	17-20	numeric	F	U
	21-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format *	***	--
Record *	F	U
ISN **	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Required only of ET data to be stored

**   Required for hold ISN option; optional for multifetch option

***   Not used but should be included in Adabas call if ET data is to be stored. If not specified, one will be automatically generated.

****   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

---   Not used

HI Command -- Hold Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
	5-8	--	--	--
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	U
	17-34	--	--	--
Command Option 1	35	alphanumeric	F	U
	36-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

None used.

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
---	13-16	---	---	---
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	U
	33-48	---	---	---
Command Option 1	49	alphanumeric	F	U
	50-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

Buffer Areas

None used.

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
--	Not used

L1/L4 Commands -- Read Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	U *
ISN Lower Limit	17-20	binary	F	U
	21-24	--	--	--
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
	29-32	--	--	--
ISN Buffer Length **	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
	37-44	--	--	--
Additions 2	45-48	binary / binary	--	A
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	--	A
ISN **	--	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Except for special options

**   The ISN buffer and length are required only if the multifetch or prefetch option is specified

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	U*
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-48	---	---	---
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-64	---	---	---
Additions 2	65-68	binary	---	A
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	F	U

Field	Position	Format	Before Adabas Call	After Adabas Call
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	--	A
Multifetch **	--	A

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Except for special options
**	The multifetch buffer is required only if the multifetch option is specified.
---	Not used

L2/L5 Commands -- Read Physical Sequential Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	A
ISN Lower Limit	17-20	binary	F	U
	21-24	--	--	--
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
	29-32	--	--	--
ISN Buffer Length *	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
	36-44	--	--	--
Additions 2	45-48	binary / binary	--	A
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F**	U
Record	--	A
ISN *	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   The ISN buffer and length are required only of the multifetch or prefetch option is specified

**   May contain compress option control characters "C."

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-48	---	---	---
Command Option 1	49	alphanumeric	F	U
	50-64	---	---	---
Additions 2	65-68	binary	---	A
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---

Field	Position	Format	Before Adabas Call	After Adabas Call
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F**	U
Record	--	A
Multifetch *	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	A multifetch buffer is required only if the multifetch option is specified.
**	May contain compress option control characters "C."
---	Not used

L3/L6 Commands -- Read Logical Sequential Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	binary	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	A
ISN Lower Limit	17-20	binary	F	U
	21-24	--	--	--
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
Search Buffer Length	29-30	binary	F *	U
Value Buffer Length	31-32	binary	F *	U
ISN Buffer Length **	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	A
Additions 2	45-48	binary / binary	--	A
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F ***	U
Record	--	A
Search *	F	U
Value *	F	U
ISN **	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Required only if value start option is being used
**	The ISN buffer and length is required only if the multifetch or prefetch option is specified.
***	May contain compress option control characters "C."
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-48	---	---	---

Field	Position	Format	Before Adabas Call	After Adabas Call
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	A
Additions 2	65-68	binary	---	A
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F ***	U
Record	--	A
Search *	F	U
Value *	F	U
Multifetch **	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Required only if value start option is being used
**	The multifetch buffer is required only if the multifetch option is specified.
***	May contain compress option control characters "C."
---	Not used

L9 Command -- Read Descriptor Values

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure
- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	--	A
ISN Lower Limit	17-20	binary	F	A
ISN Quantity	21-24	binary	--	A
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
Search Buffer Length	29-30	binary	F	U
Value Buffer Length	31-32	binary	F	U
ISN Buffer Length *	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
Additions 2	45-48	binary	--	A
Additions 3	49-56	alphanumeric	F	A
	57-64	--	--	--
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	--	A
Search	F	U
Value	F	U
ISN *	--	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   The ISN buffer and length required only if the multifetch or prefetch option is specified

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	---	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	A
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A
Command Option 1	49	alphanumeric	F	U

Field	Position	Format	Before Adabas Call	After Adabas Call
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
---	65-68	---	---	---
Additions 3	69-76	alphanumeric/ binary	F	A
	77-84	---	---	---
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	---	A
Search	F	U
Value	F	U
Multifetch *	---	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   The multifetch buffer is required only if the multifetch option is specified

---   Not used

LF Command -- Read Field Definitions

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
	5-8	--	--	--
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
	13-26	--	--	--
Record Buffer Length	27-28	binary	F	U
	29-35	--	--	--
Command Option 2	36	alphanumeric	F	U
	37-48	--	--	--
Additions 3	49-56	alphanumeric	F	A
	57-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	--
Record	--	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but must be included in parameter list of call statement

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
	13-16	---	---	---
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-49	---	---	---
Command Option 2	50	alphanumeric	F	U
	51-68	---	---	---
Additions 3	69-76	alphanumeric/ binary	F	A
	77-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	*	--
Record	--	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but should be included in Adabas call or one will be automatically generated.

--   Not used

N1/N2 Commands -- Add New Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	A/U [1]
ISN Lower Limit	17-20	binary	--	A [2]
ISN Quantity	21-24	binary	--	A [2]
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
	29-44	--	--	--
Additions 2	45-48	alphanumeric	--	A
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Notes

1. Supplied by Adabas for N1; unchanged for N2.

2. These fields are used and not reset by Adabas if coupled files are used.

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	F	U

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	A/U [1]
	33-36	---	---	---
ISN Lower Limit	37-40	binary	---	A [2]
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A [2]
	49-64	---	---	---
Additions 2	65-68	binary	---	A
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---

Field	Position	Format	Before Adabas Call	After Adabas Call
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

Notes

1. Supplied by Adabas for N1; unchanged for N2.

2. These fields are used and not reset by Adabas if coupled files are used.

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	F	U

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
---	Not used

OP Command -- Open User Session

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	--	A
File Number**	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	--	A
ISN Lower Limit	17-20	binary	F	A
ISN Quantity	21-24	binary	F	A
	25-26	--	--	--
Record Buffer Length	27-28	binary	F	U
	29-34	--	--	--
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
Additions 2	45-48	alphanumeric	--	A
	49-56	--	--	--
Additions 4	57-64	binary	F	A
Additions 5	65-72	binary	--	A
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	
Record	F	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but must be included in parameter list of the call statement

**   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	---	A
Database ID**	17-20	numeric	F	U
	21-28	---	---	---
ISN	29-32	binary	---	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	A
	41-44	---	---	---
ISN Quantity	45-48	binary	F	A
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
Additions 2	65-68	binary	---	A
	69-76	---	---	---

Field	Position	Format	Before Adabas Call	After Adabas Call
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	---	A
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	*	
Record	F	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but should be included in Adabas call or one will be automatically generated.

**   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

--   Not used

RC Command -- Release Command ID or Global Format ID

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
	13-34	--	--	--
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
	45-64	--	--	--
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

None used.

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-48	---	---	---
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
	65-84		---	---
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

None used.

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

--   Not used

RE Command -- Read ET User Data

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	binary	--	A
File Number ****	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	A
	17-26	--	--	--
Record Buffer Length	27-28	binary	F	U
	29-34	--	--	--
Command Option 1	35	alphanumeric	F	U
	36	--	--	--
Additions 1	37-44	alphanumeric	F *	U/A **
Additions 2	45-48	alphanumeric	--	A
	49-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	***	--
Record	--	A

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Supplied ET data user ID when Command Option 1 equals "I"
**	User ID for ET data in record buffer if Command Option 1 equals "A"
***	Not used but must be included in parameter list of call statement
****	A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	---	A
Database ID****	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	A
	33-48	---	---	---
Command Option 1	49	alphanumeric	F	U
	50-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F*	U/A**
Additions 2	65-68	binary	---	A
	69-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	***	--
Record	--	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Supplied ET data user ID when Command Option 1 equals "I"

**   User ID for ET data in record buffer if Command Option 1 equals "A"

***   Not used but should be included in Adabas call or one will be automatically generated.

****   A database ID is only necessary if you are accessing a database other than the application's default database (read in by ADARUN DBID parameter, provided in the loaded link globals table, or linked with the link routine).

---   Not used

RI Command -- Release Held Record

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
	5-8	--	--	--
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	U
	17-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

None used.

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
	13-16	---	---	---
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	U
	33-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

None used.

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
---	Not used

S1/S2/S4 Commands -- Find Records

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	--	A
ISN Lower Limit	17-20	binary	F	U
ISN Quantity	21-24	binary	F *	A
Format Buffer Length	25-26	binary	F	U
Record Buffer Length	27-28	binary	F	U
Search Buffer Length	29-30	binary	F	U
Value Buffer Length	31-32	binary	F	U
ISN Buffer Length	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
Additions 2	45-48	binary / binary	--	A
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
Additions 5	65-72	alphanumeric	F	U
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	--	A
Search	F	U
Value	F	U
ISN	--	A

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Optional timeout value, in seconds
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	---	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-44	---	---	---
ISN Quantity	45-48	binary	F*	A
Command Option 1	49	alphanumeric	F	U

Field	Position	Format	Before Adabas Call	After Adabas Call
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
Additions 2	65-68	binary	---	A
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A
Additions 5	85-92	alphanumeric/ binary	F	U
	93-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
Format	F	U
Record	---	A
Search	F	U
Value	F	U
ISN	---	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Optional timeout value, in seconds

---   Not used

S5 Command -- Find Coupled ISNs

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	F	A
ISN Lower Limit	17-20	binary	F	U
ISN Quantity	21-24	binary	--	A
	25-32	--	--	--
ISN Buffer Length	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
	45-48	--	--	--
Additions 3	49-56	alphanumeric	F	A
	57-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	--
Record	*	--
Search	*	--
Value	*	--
ISN	--	A

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
*	Not used but must be included in parameter list of call statement
--	Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	F	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A
Command Option 1	49	alphanumeric	F	U

Field	Position	Format	Before Adabas Call	After Adabas Call
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
	65-68	---	---	---
Additions 3	69-76	alphanumeric/ binary	F	A
	77-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
ISN	---	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

---   Not used

S8 Command -- Process ISN Lists

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	--	A
ISN Lower Limit	17-20	binary	F	U
ISN Quantity	21-24	binary	--	A
	25-32	--	--	--
ISN Buffer Length	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
	45-48	--	--	--
Additions 3	49-56	alphanumeric	F	A
	57-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	--
Record	*	--
Search	*	--
Value	*	--
ISN	--	A

where:

F　　　　　Supplied by user before Adabas call

A　　　　　Supplied by Adabas

U　　　　　Unchanged after Adabas call

*　　　　　Not used but must be included in parameter list of call statement

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	---	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-44	---	---	---
ISN Quantity	45-48	binary	---	A
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
	65-68	---	---	---
Additions 3	69-76	alphanumeric/ binary	F	A
	77-114	---	---	---
Error Subcode	115-116	binary	---	A

Field	Position	Format	Before Adabas Call	After Adabas Call
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
ISN	---	A

where:

F	Supplied by user before Adabas call
A	Supplied by Adabas
U	Unchanged after Adabas call
---	Not used

S9 Command -- Sort ISN List

We recommend that you set unused ACB and ACBX fields to binary zeros before the direct call is initiated.

- ACB Control Block Structure

- ACBX Control Block Structure

ACB Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	--	--	--
Command Code	3-4	alphanumeric	F	U
Command ID	5-8	alphanumeric	F	U
File Number	9-10	binary	F	U
Response Code	11-12	binary	--	A
ISN	13-16	binary	--	A
ISN Lower Limit	17-20	binary	F	U
ISN Quantity	21-24	binary	F	A
	25-32	--	--	--
ISN Buffer Length	33-34	binary	F	U
Command Option 1	35	alphanumeric	F	U
Command Option 2	36	alphanumeric	F	U
Additions 1	37-44	alphanumeric	F	U
	45-48	--	--	--
Additions 3	49-56	alphanumeric	F	A
Additions 4	57-64	alphanumeric	F	A
	65-72	--	--	--
Command Time	73-76	binary	--	A
User Area	77-80	--	--	U

Buffer Areas

Buffer	Before Adabas Call	After Adabas Call
Format	*	--
Record	*	--
Search	*	--
Value	*	--
ISN	F	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

*   Not used but must be included in parameter list of call statement

--   Not used

ACBX Control Block Structure

Field	Position	Format	Before Adabas Call	After Adabas Call
	1-2	---	---	---
Version Indicator	3-4	binary	F	U
	5-6	---	---	---
Command Code	7-8	alphanumeric	F	U
	9-10	---	---	---
Response Code	11-12	binary	---	A
Command ID	13-16	alphanumeric/ binary	F	U
Database ID	17-20	numeric	F	U
File Number	21-24	numeric	F	U
	25-28	---	---	---
ISN	29-32	binary	---	A
	33-36	---	---	---
ISN Lower Limit	37-40	binary	F	U
	41-44	---	---	---
ISN Quantity	45-48	binary	F	A
Command Option 1	49	alphanumeric	F	U
Command Option 2	50	alphanumeric	F	U
	51-56	---	---	---
Additions 1	57-64	alphanumeric/ binary	F	U
	65-68	---	---	---
Additions 3	69-76	alphanumeric/ binary	F	A
Additions 4	77-84	alphanumeric	F	A

Field	Position	Format	Before Adabas Call	After Adabas Call
	85-114	---	---	---
Error Subcode	115-116	binary	---	A
	117-144	---	---	---
Command Time	145-152	binary	---	A
User Area	153-168	not applicable	---	U
---	169-193	do not touch	---	---

ABDs and Buffers

ABD and Buffer	Before Adabas Call	After Adabas Call
ISN	F	A

where:

F   Supplied by user before Adabas call

A   Supplied by Adabas

U   Unchanged after Adabas call

---   Not used