

DDDDDDDDDDDD		CCCCCCCCCCCC	XXX		XXX
DDDDDDDDDDDD		CCCCCCCCCCCC	XXX		YXX
DDDDDDDDDDDD		CCCCCCCCCCCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDD	DDD	CCC	XXX		XXX
DDDDDDDDDDDD		CCCCCCCCCCCC	XXX		XXX
DDDDDDDDDDDD		CCCCCCCCCCCC	XXX		XXX
DDDDDDDDDDDD		CCCCCCCCCCCC	XXX		XXX

```

DDDDDDDD      CCCCCCCC  XX      XX  SSSSSSSS  HH      HH  RRRRRRRR
DDDDDDDD      CCCCCCCC  XX      XX  SSSSSSSS  HH      HH  RRRRRRRR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DD      DD    CC          XX      XX  SS          HH      HH  RR      RR
DDDDDDDD      CCCCCCCC  XX      XX  SSSSSSSS  HH      HH  RRRRRRRR
DDDDDDDD      CCCCCCCC  XX      XX  SSSSSSSS  HH      HH  RRRRRRRR

```

```

MM      MM      AAAAAA  PPPPPPPP
MM      MM      AAAAAA  PPPPPPPP
MMMM  MMMM  AA      AA  PP      PP
MMMM  MMMM  AA      AA  PP      PP
MM  MM  MM  AA      AA  PP      PP
MM  MM  MM  AA      AA  PPPPPPPP
MM  MM  MM  AA      AA  PPPPPPPP
MM  MM  AAAAAAAAAA  PP
MM  MM  AAAAAAAAAA  PP
MM  MM  AA      AA  PP
MM  MM  AA      AA  PP
MM  MM  AA      AA  PP
MM  MM  AA      AA  PP

```

```

+-----+
! Object Module Synopsis !
+-----+

```

Module Name	Ident	Bytes	File	Creation Date	Creator
DCX_TRANSFER	V04-000	512	-\$255\$DUA28:[DCX.OBJ]DCX.OLB;1	15-SEP-1984 23:37	VAX/VMS Macro V04-00
DCX_ANALYZE	V04-000	2705	-\$255\$DUA28:[DCX.OBJ]DCX.OLB;1	15-Sep-1984 23:38	VAX-11 Bliss-32 V4.0-742
DCX_COMPRESS	V04-000	1044	-\$255\$DUA28:[DCX.OBJ]DCX.OLB;1	15-Sep-1984 23:41	VAX-11 Bliss-32 V4.0-742
DCX_EXPAND	V04-000	653	-\$255\$DUA28:[DCX.OBJ]DCX.OLB;1	15-Sep-1984 23:42	VAX-11 Bliss-32 V4.0-742
DCX_SUBS	V04-000	234	-\$255\$DUA28:[DCX.OBJ]DCX.OLB;1	15-Sep-1984 23:43	VAX-11 Bliss-32 V4.0-742
DCXMSG	0	42	-\$255\$DUA28:[DCX.OBJ]DCX.OLB;1	15-SEP-1984 23:44	VAX-11 Message V04-00
LIB\$MSGDEF	2-018	0	-\$255\$DUA28:[SYSLIB]STARLET.OLB;2	15-SEP-1984 23:43	VAX-11 Message V04-00
LIBRTL	V04-000	0	-\$255\$DUA28:[SYSLIB]LIBRTL.EXE;1	16-SEP-1984 04:00	VAX-11 Linker V04-00

-----  
! Image Section Synopsis !  
-----

Cluster	Type	Pages	Base Addr	Disk VBN	PFC	Protection and Paging	Global Sec. Name	Match	Majorid	Minorid
DEFAULT_CLUSTER	1	11	00000000-R		2	0 READ ONLY				
	4	1	P-00001600-R		13	0 READ WRITE COPY ON REF				
	2	1	00001800-R		14	0 READ WRITE FIXUP VECTORS				
LIBRTL	3	111	00000000-R		0	0 READ ONLY	LIBRTL_001	LESS/EQUAL	1	11
	4	1	0000DE00-R		0	0 READ WRITE DEMAND ZERO	LIBRTL_002	LESS/EQUAL	1	11

Key for special characters above:

-----  
! R - Relocatable !  
! P - Protected !  
-----

-----  
: Program Section Synopsis :  
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<u>Psect Name</u>	<u>Module Name</u>	<u>Base</u>	<u>End</u>	<u>Length</u>	<u>Align</u>	<u>Attributes</u>	
\$VECTOR_0_DCX	DCX_TRANSFER	00000000	000001FF	00000200 (	512.)	PAGE 9	NOPIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
		00000000	000001FF	00000200 (	512.)	PAGE 9	
\$CODES	DCX_ANALYZE	00000200	00001421	00001222 :	4642.)	LONG 2	NOPIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	DCX_COMPRESS	00000200	00000C90	00000A91 (	2705.)	LONG 2	
	DCX_EXPAND	00000C94	000010A7	00000414 (	1044.)	LONG 2	
	DCX_SUBS	000010A8	00001334	0000028D (	653.)	LONG 2	
		00001338	00001421	000000EA (	234.)	LONG 2	
MSGPTR\$AAAAAAA	DCXMSG	00001600	0000160F	00000010 (	16.)	LONG 2	PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001600	0000160F	00000010 (	16.)	LONG 2	
MSGPTR\$AAAAAAB	DCXMSG	00001610	00001613	00000004 (	4.)	LONG 2	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001610	00001613	00000004 (	4.)	LONG 2	
MSGPTR\$AAAAAAC	DCXMSG	00001614	00001617	00000004 (	4.)	LONG 2	PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001614	00001617	00000004 (	4.)	LONG 2	
MSGPTR\$SECTION	DCXMSG	00001618	00001629	00000012 (	18.)	BYTE 0	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001618	00001629	00000012 (	18.)	BYTE 0	

-----  
! Symbol Cross Reference !  
-----

Symbol	Value	Defined By	Referenced By ...		
DCX\$ANALYZE_DATA	000004AB-RU	DCX_ANALYZE	DCX_TRANSFER		
DCX\$ANALYZE_DONE	00000C52-RU	DCX_ANALYZE	DCX_TRANSFER		
DCX\$ANALYZE_INIT	00000404-RU	DCX_ANALYZE	DCX_TRANSFER		
DCX\$COMPRESS_DATA	00000E6C-RU	DCX_COMPRESS	DCX_TRANSFER		
DCX\$COMPRESS_DONE	00001040-RU	DCX_COMPRESS	DCX_TRANSFER		
DCX\$COMPRESS_INIT	00000D77-RU	DCX_COMPRESS	DCX_TRANSFER		
DCX\$CTX_CHECK	000013A7-R	DCX_SUBS	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
DCX\$C_BOUNDED	00000101-U	DCX_TRANSFER			
DCX\$C_EST_BYTES	00000202-U	DCX_TRANSFER			
DCX\$C_EST_RECORDS	00000201-U	DCX_TRANSFER			
DCX\$C_LIST	00000001-U	DCX_TRANSFER			
DCX\$C_ONE_PASS	00000102-U	DCX_TRANSFER			
DCX\$EXPAND_DATA	0000114D-RU	DCX_EXPAND	DCX_TRANSFER		
DCX\$EXPAND_DONE	000012F5-RU	DCX_EXPAND	DCX_TRANSFER		
DCX\$EXPAND_INIT	000010A8-RU	DCX_EXPAND	DCX_TRANSFER		
DCX\$FREE_VM	00001388-R	DCX_SUBS	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
DCX\$GET_VM	00001338-R	DCX_SUBS	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
DCX\$LONG_MOVE	000013F7-R	DCX_SUBS	DCX_COMPRESS	DCX_EXPAND	
DCX\$MAKE_MAP	000009D9-RU	DCX_ANALYZE	DCX_TRANSFER		
DCX\$MAP_CHECK	000013D3-R	DCX_SUBS	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
DCX\$AGAIN	00F68403-U	DCXMSG			
DCX\$FACILITY	000000F6	DCXMSG			
DCX\$INVARG	00F69002-U	DCXMSG	DCX_ANALYZE		
DCX\$INVCTX	00F69017-U	DCXMSG	DCX_ANALYZE	DCX_EXPAND	DCX_SUBS
DCX\$INVDATA	00F6900A-U	DCXMSG	DCX_COMPRESS	DCX_EXPAND	
DCX\$INVITEM	00F6901A	DCXMSG	DCX_ANALYZE		
DCX\$INVMAP	00F69022-U	DCXMSG	DCX_SUBS		
DCX\$NORMAL	00F68001-U	DCXMSG	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
DCX\$TRUNC	00F68800-U	DCXMSG	DCX_COMPRESS	DCX_EXPAND	DCX_SUBS
LIB\$ANALYZE_SDESC_R2	00001848-RX	LIBRTL	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
LIB\$FREE_VM	00001850-RX	LIBRTL	DCX_SUBS		
LIB\$GET_VM	00001854-RX	LIBRTL	DCX_SUBS		
LIB\$SCOPY_R_DX	0000184C-RX	LIBRTL	DCX_ANALYZE	DCX_COMPRESS	DCX_EXPAND
LIB\$STRTRU	00158011	LIB\$MSGDEF	DCX_COMPRESS	DCX_EXPAND	

-----  
! Symbols By Value !  
-----

Value	Symbols...
-----	-----
00000001	U-DCX\$C_LIST
000000F6	DCX\$ FACILITY
00000101	U-DCX\$C_BOUNDED
00000102	U-DCX\$C_ONE_PASS
00000201	U-DCX\$C_EST_RECORDS
00000202	U-DCX\$C_EST_BYTES
00000404	RU-DCX\$ANALYZE_INIT
000004AB	RU-DCX\$ANALYZE_DATA
000009D9	RU-DCX\$MAKE_MAP
00000C52	RU-DCX\$ANALYZE_DONE
00000D77	RU-DCX\$COMPRESS_INIT
00000E6C	RU-DCX\$COMPRESS_DATA
00001040	RU-DCX\$COMPRESS_DONE
000010A8	RU-DCX\$EXPAND_INIT
0000114D	RU-DCX\$EXPAND_DATA
000012F5	RU-DCX\$EXPAND_DONE
00001338	R-DCX\$GET_VM
00001388	R-DCX\$FREE_VM
000013A7	R-DCX\$CTX_CHECK
000013D3	R-DCX\$MAP_CHECK
000013F7	R-DCX\$LONG_MOVE
00001848	RX-LIB\$ANALYZE_SDESC_R2
0000184C	RX-LIB\$COPY_R_DX
00001850	RX-LIB\$FREE_VM
00001854	RX-LIB\$GET_VM
00158011	LIB\$STRTRU
00F68001	U-DCX\$_NORMAL
00F68403	U-DCX\$_AGAIN
00F68800	U-DCX\$_TRUNC
00F69002	U-DCX\$_INVARG
00F6900A	U-DCX\$_INVDATA
00F69012	U-DCX\$_INVCTX
00F6901A	DCX\$_INVITEM
00F69022	U-DCX\$_INVMAP

Key for special characters above:

```

-----
* - Undefined
U - Universal
R - Relocatable
X - External
-----

```

-----  
! Image Synopsis !  
-----

Virtual memory allocated: 00000000 000019FF 00001A00 (6656. bytes, 13. pages)  
Stack size: 0. pages  
Image header virtual block limits: 1. ( 1. block)  
Image binary virtual block limits: 2. ( 13. blocks)  
Image name and identification: DCXSHR V04-000  
Number of files: 5.  
Number of modules: 9.  
Number of program sections: 9.  
Number of global symbols: 253.  
Number of cross references: 83.  
Number of image sections: 5.  
Number of code references to shareable images: 4.  
Image type: PIC, SHAREABLE. Global Section Match=LESS/EQUAL, Ident, Major=1, Minor=1  
Map format: FULL WITH CROSS REFERENCE in file \_S255SDUA28:[DCX.LIS]DCXSHR.MAP;1  
Estimated map length: 61. blocks

-----  
! Link Run Statistics !  
-----

Performance Indicators	Page Faults	CPU Time	Elapsed Time
Command processing:	48	00:00:00.48	00:00:01.81
Pass 1:	94	00:00:00.86	00:00:03.34
Allocation/Relocation:	9	00:00:00.15	00:00:00.69
Pass 2:	27	00:00:00.43	00:00:01.25
Map data after object module synopsis:	12	00:00:00.33	00:00:00.34
Symbol table output:	12	00:00:00.13	00:00:01.31
Total run values:	202	00:00:02.38	00:00:08.74

Using a working set limited to 750 pages and 95 pages of data storage (excluding image)

Total number object records read (both passes): 277  
of which 131 were in libraries and 35 were DEBUG data records containing 2895 bytes

Number of modules extracted explicitly = 6  
with 1 extracted to resolve undefined symbols

5 library searches were for symbols not in the library searched

A total of 12 global symbol table records was written

LINK/SHARE=EXES:DCXSHR/MAP=MAPS:DCXSHR/FULL/CROSS/SYMBOL=EXES:DCXSHR SYSS\$INPUT:/OPTIONS

Options for DCXSHRLNK.COM

```
LIBS:DCX/INCLUDE=(-
DCX_TRANSFER,-      !Transfer vector
DCX_ANALYZE,-       !Data Analysis
DCX_COMPRESS,-      !Data Compression
DCX_EXPAND,-        !Data expansion
DCX_SUBS,-          !Miscellaneous routines
```



DCXMSG) !Message codes

! Set Global Section match control

GSMATCH=LEQUAL,1,1

PSECT=\$\$VECTOR\_0\_DCX,NOPICT,SHR  
PSECT=\$CODES,SHR

! Define universal symbols

```

UNIVERSAL= -
DCX$ANALYZE_INIT,-      !Initialization for data analysis
DCX$ANALYZE_DATA,-     !Analyze data record
DCX$MAKE_MAP,-         !Compute compression / expansion map
DCX$ANALYZE_DONE,-     !Release analysis context
DCX$COMPRESS_INIT,-   !Initialization for data compression
DCX$COMPRESS_DATA,-   !Compress data record
DCX$COMPRESS_DONE,-   !Release compression context
DCX$EXPAND_INIT,-     !Initialization for data expansion
DCX$EXPAND_DATA,-     !Expand data record
DCX$EXPAND_DONE,-     !Release expansion context

```

! DCX messages

! Success

DCX\$NORMAL,-

! Informational codes

DCX\$AGAIN,-

! Warning codes

DCX\$TRUNC,-

! Error codes

DCX\$INVARG,-

DCX\$INVDATA,-

DCX\$INVMAP,-

DCX\$INVCTX,-

! Item codes

DCX\$C\_BOUNDED,-

DCX\$C\_ONE\_PASS,-

DCX\$C\_EST\_RECORDS,-

DCX\$C\_EST\_BYTES,-

DCX\$C\_LIST

