

FILEID**NDXINI

J 8

NN NN DDDDDDDD XX XX IIIII NN NN IIIII
NN NN DDDDDDDD XX XX IIIII NN NN IIIII
NN NN DD DD XX XX IIIII NN NN IIIII
NN NN DD DD XX XX IIIII NN NN IIIII
NNNN NNNN DD DD XX XX IIIII NNNN NNNN IIIII
NNNN NNNN DD DD XX XX IIIII NNNN NNNN IIIII
NN NN NN DD DD XX XX IIIII NN NN NN IIIII
NN NN NN DD DD XX XX IIIII NN NN NN IIIII
NN NNNN DD DD XX XX IIIII NN NNNN IIIII
NN NNNN DD DD XX XX IIIII NN NNNN IIIII
NN NN DD DD XX XX IIIII NN NN IIIII
NN NN DD DD XX XX IIIII NN NN IIIII
NN NN DDDDDDDD XX XX IIIII NN NN IIIII
NN NN DDDDDDDD XX XX IIIII NN NN IIIII

....

LL IIIII SSSSSSS
LL IIIII SSSSSSS
LL II SS SSSSSSS
LLLLLLLLLL IIIII SSSSSSS
LLLLLLLLLL IIIII SSSSSSS

NDX
V04

```
0001 0 XTITLE 'NDXINI -- Once only initialization and global data'
0002 0 MODULE NDXINI (IDENT = 'V04-000'
0003 0           XBLISS32 [, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE)]
0004 0           ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 ****
0009 1 *
0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0012 1 * ALL RIGHTS RESERVED.
0013 1 *
0014 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0015 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0016 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0017 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0018 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0019 1 * TRANSFERRED.
0020 1 *
0021 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0022 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0023 1 * CORPORATION.
0024 1 *
0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 ****
0030 1 .
0031 1
0032 1 ++
0033 1 * FACILITY:
0034 1 * DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility
0035 1
0036 1 * ABSTRACT:
0037 1 * This module contains once only initialization code and global data.
0038 1
0039 1 * ENVIRONMENT: Transportable
0040 1
0041 1 * AUTHOR: JPK
0042 1
0043 1 * CREATION DATE: December 1981
0044 1
0045 1 * MODIFIED BY:
0046 1
0047 1   005     JPK00017    23-Feb-1983
0048 1 * Modified NDXINI to initialize the zero'th entries of LLINES,
0049 1 * RLINES and TLINES which is where the telltale strings are
0050 1 * stored by NDXFMT.
0051 1 * Modified NDXFMT to write appropriate prologue for /TELLTALE,
0052 1 * save the appropriate lines for left and right telltales, and
0053 1 * to mark the end of every entry with a NULL.
0054 1 * Modified NDXPAG to change the NULL following each entry to a
0055 1 * space if LAYOUT is SEPARATE or to a comma otherwise and to
0056 1 * generate and output telltales.
0057 1
```

: 58 0058 1 | 004 JPK00015 04-Feb-1983
59 0059 1 |
60 0060 1 |
61 0061 1 |
62 0062 1 | 003 JPK00009 24-Jan-1983
63 0063 1 |
64 0064 1 |
65 0065 1 |
66 0066 1 |
67 0067 1 |
68 0068 1 |
69 0069 1 |
70 0070 1 | 002 JPK00005 24-Sep-1982
71 0071 1 |
72 0072 1 |
73 0073 1 | ---
Cleaned up module names, modified revision history to
conform with established standards. Updated copyright dates.
Modified to enhance performance. The sort buckets have each
been divided into 27 sub-buckets; 1 for each letter and 1
for non-alphas. Removed reference to BUCKET from INDEX.
Definition of the structure was added to NDXPOL. References
to BUCKET were changed in modules NDXOUT, NDXINI, NDXFMT
and NDXDAT.
Removed definition of CHRFWD in NDXINI. No longer needed.

```
: 75
: 76      0074 1 | 
: 77      0075 1 | TABLE OF CONTENTS:
: 78      0076 1 | 
: 79      0077 1 | FORWARD ROUTINE
: 80      0078 1 |   NDXINI : NOVALUE;
: 81      0079 1 |           ! Once only initialization routine
: 82      0080 1 | INCLUDE FILES:
: 83      0081 1 | 
: 84      0082 1 | 
: 85      0083 1 | LIBRARY 'NXPORT:XPORT';
: 86      0084 1 | 
: 87      0085 1 | SWITCHES LIST (REQUIRE);
: 88      0086 1 | 
: 88      0087 1 | REQUIRE 'REQ:NDXCLI';
```

R0088 1 IDENT = OV04-00004

R0089 1 *****
R0090 1 *
R0091 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
R0092 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
R0093 1 * ALL RIGHTS RESERVED.

R0094 1 *
R0095 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
R0096 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
R0097 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
R0098 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
R0099 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
R0100 1 * TRANSFERRED.

R0101 1 *
R0102 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
R0103 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
R0104 1 * CORPORATION.

R0105 1 *
R0106 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0107 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

R0111 1 *
R0112 1 *
R0113 1 *
R0114 1 **
R0115 1 FACILITY:
R0116 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility

R0117 1 ABSTRACT: INDEX command line definitions

R0118 1 ENVIRONMENT: Transportable

R0119 1 AUTHOR: JPK

R0120 1 CREATION DATE: January 1982

R0121 1 MODIFIED BY:

R0122 1 004 JPK00015 04-Feb-1983
R0123 1 Cleaned up module names, modified revision history to
R0124 1 conform with established standards. Updated copyright dates.

R0125 1 003 JPK00011 24-Jan-1983
R0126 1 Changed CMDBLK [NDX\$G_LEVEL] to CMDBLK [NDX\$H_LEVEL]
R0127 1 Changed CMDBLK [NDX\$H_FORMAT] to CMDBLK [NDX\$A_LAYOUT]
R0128 1 Changed CMDBLK [NDX\$V-TMS11] and CMDBLK [NDX\$V-TEX] to CMDBLK [NDX\$H_FORMAT]
R0129 1 Changed comparisons of (.CHRSIZ EQLA CHRSZA) to
R0130 1 (.CMDBLK [NDX\$H_FORMAT] EQL TMS11 A).
R0131 1 Definitions were changed in NDXCLI and references to the
R0132 1 effected fields were changed in NDXPAG, NDXFMT, INDEX, NDXVMS
R0133 1 and NDXCLIDMP.

R0134 1 002 RER00002 20-Jan-1983
R0135 1 Modified VMS command line interface module NDXVMS:
R0136 1 - changed /FORMAT qualifier to /LAYOUT.

NDXINI
V04-000

NDXINI -- Once only initialization and global d 16-Sep-1984 01:02:31 8 9
15-Sep-1984 22:53:19 VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[RUNOFF.SRC]NDXCLI.REQ;1 Page 5
(1)

: R0145 1 | - changed use of /RESERVE and /REQUIRE for DSRPLUS.
: R0146 1 | - added code for new DSRPLUS qualifiers /FORMAT and
: R0147 1 | /TELLTALE HEADINGS.
: R0148 1 | Added fields to NDXCLI for new qualifiers: NDX\$V_TELLTALE
: R0149 1 | and NDX\$V_TEX.
: R0150 1 | Conditionalized output of NDX\$V PAGE MERGE in NDXCLIDMP to
: R0151 1 | account for different DSR and DSRPLUS default values.
: R0152 1 |
: R0153 1 |
: R0154 1 |
: |--

```

R0155 1      ! NDXCMD_FIELDS
R0156 1
R0157 1
R0158 1 $FIELD ndxcmd_fields =
R0159 1   SET
R0160 1
R0161 1   NDX$V_OPTIONS      = [$INTEGER],           ! Command option indicators:
R0162 1
R0163 1     SOVERLAY (NDX$V_OPTIONS)
R0164 1
R0165 1     NDX$V_INPUT_CONCAT      = [$BIT],          | Input file concatenated to previous
R0166 1     NDX$V_OUTPUT          = [$BIT],          | Generate output file
R0167 1     NDX$V_REQUIRE          = [$BIT],          | Require file specified
R0168 1     NDX$V_PAGES            = [$BIT],          | Include page references in index
R0169 1     NDX$V_OVERRIDE          = [$BIT],          | Override master index information
R0170 1     NDX$V_STANDARD_PAGE    = [$BIT],          | Generate standard page numbers
R0171 1     NDX$V_CONTINUATION     = [$BIT],          | Generate continuation headings
R0172 1     NDX$V_GUIDE            = [$BIT],          | Generate guide headings
R0173 1     NDX$V_WORD_SORT       = [$BIT],          | Sort entries word by word
R0174 1     NDX$V_LOG              = [$BIT],          | Generate /LOG message
R0175 1     NDX$V_MASTER           = [$BIT],          | Generate a master index
R0176 1     NDX$V_PAGE_MERGE      = [$BIT],          | Merge adjacent page references
R0177 1     NDX$V_TELLTALE        = [$BIT],          | Generate telltale headings
R0178 1
R0179 1     SCONTINUE
R0180 1
R0181 1     NDX$H_FORMAT          = [$SHORT_INTEGER], | Output format: DSR, TMS, TEX
R0182 1     NDX$H_LAYOUT           = [$SHORT_INTEGER], | Output layout type
R0183 1     NDX$H_NONALPHA         = [$SHORT_INTEGER], | Treatment of leading nonalphas during sort
R0184 1     NDX$H_LEVEL            = [$SHORT_INTEGER], | Deepest level to include in index
R0185 1     NDX$G_COLUMN_WID       = [$INTEGER],        | Column width
R0186 1     NDX$G_GUTTER_WID       = [$INTEGER],        | Gutter width
R0187 1     NDX$G_LINES_PAGE       = [$INTEGER],        | Lines per page
R0188 1     NDX$G_RESERVE_LINES    = [$INTEGER],        | Number of lines to reserve when requiring a file
R0189 1     NDX$G_SEPARATE_WIDTH   = [$INTEGER],        | Width of reference portion of entry
R0190 1     NDX$T_MASTER_BOOK      = [$DESCRIPTOR(DYNAMIC)], | Book name descriptor for Master indexing
R0191 1     NDX$T_INPUT_FILE       = [$DESCRIPTOR(DYNAMIC)], | Input file name descriptor
R0192 1     NDX$T_OUTPUT_FILE      = [$DESCRIPTOR(DYNAMIC)], | Output file name descriptor
R0193 1     NDX$T_REQUIRE_FILE     = [$DESCRIPTOR(DYNAMIC)], | Require file name descriptor
R0194 1     NDX$T RELATED_FILE     = [$DESCRIPTOR(DYNAMIC)], | Related file name descriptor is saved here
R0195 1     NDX$T_COMMAND_LINE     = [$DESCRIPTOR(DYNAMIC)] | by NDXINP for later use by MAKNDX
R0196 1
R0197 1     NDX$T_COMMAND_LINE     = [$DESCRIPTOR(DYNAMIC)] | Copy of entire command line
R0198 1
R0199 1     TES:
R0200 1
R0201 1
R0202 1
R0203 1     LITERAL
R0204 1     NDXCMD$K_LENGTH = $FIELD_SET_SIZE;
R0205 1
R0206 1
R0207 1     MACRO
R0208 1     $NDXCMD = BLOCK [NDXCMD$K_LENGTH] FIELD (NDXCMD_FIELDS) %;
R0209 1
R0210 1     SLITERAL
R0211 1     DSR                  = $DISTINCT,          | Output formats (NDX$H_FORMAT)
R0211 1     TMS11_A              = $DISTINCT,          | Runoff
R0211 1                           | TMS=A

```

NDXINI
V04-000

NDXINI -- Once only initialization and global d 16-Sep-1984 01:02:31 D 9
15-Sep-1984 22:53:19 VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[RUNOFF.SRC]NDXCLI.REQ;1 Page 7
(2)

```
: R0212 1      TMS11_E          = $DISTINCT,    | TMS=E
: R0213 1      TEX              = $DISTINCT;   | TEX
: R0214 1
: R0215 1      $LITERAL         :
: R0216 1      TWO_COLUMN       = $DISTINCT,    | Output layouts (NDX$H_LAYOUT)
: R0217 1      ONE_COLUMN        = $DISTINCT,    | Normal two column format
: R0218 1      SEPARATE         = $DISTINCT,    | Normal one column format
: R0219 1      GALLEY           = $DISTINCT;   | Separate reference format
: R0220 1
: R0221 1      $LITERAL         :
: R0222 1      BEFORE            = $DISTINCT,    | Treatment of leading nonalphas during sort (NDX$H_NONALPHA)
: R0223 1      AFTER             = $DISTINCT,    | Leading nonalphas sort before alphas
: R0224 1      IGNORE            = $DISTINCT;   | Leading nonalphas sort after alphas
: R0225 1
: R0226 1
: R0227 1      |--      End of NDXCLI.REQ
```

NDXINI
V04-000

NDXINI -- Once only initialization and global d E 9
16-Sep-1984 01:02:31
14-Sep-1984 13:07:13 VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXINI.BLI;1

Page 8
(2)

: 89
: 90

0228 1
0229 1 REQUIRE 'REQ:NDXXPL';

R0230 1
R0231 1 Version: 'V04-000'
R0232 1
R0233 1
R0234 1
R0235 1
R0236 1
R0237 1
R0238 1
R0239 1
R0240 1
R0241 1
R0242 1
R0243 1
R0244 1
R0245 1
R0246 1
R0247 1
R0248 1
R0249 1
R0250 1
R0251 1
R0252 1
R0253 1
R0254 1
R0255 1
R0256 1
R0257 1
R0258 1
R0259 1
R0260 1
R0261 1
R0262 1
R0263 1
R0264 1
R0265 1
R0266 1
R0267 1
R0268 1
R0269 1
R0270 1
R0271 1
R0272 1
R0273 1
R0274 1
R0275 1
R0276 1
R0277 1
R0278 1
R0279 1
R0280 1
R0281 1
R0282 1
R0283 1
R0284 1
R0285 1
R0286 1

* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
* ALL RIGHTS RESERVED.
*
* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
* TRANSFERRED.
*
* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
* CORPORATION.
*
* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
*

++
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:
This file contains definitions of data structures used to support
the extended indexing features of the DSRPLUS INDEX program.

ENVIRONMENT: Transportable BLISS

AUTHOR: J.P. Kellerman

CREATION DATE: January 1982

MODIFIED BY:
002 KAD00002 Keith Dawson 07-Mar-1983
Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.
--
! Extended INDEX attributes block.
\$FIELD XPL_FIELDS =
SET
XPL\$V_OPTIONS = [\$INTEGER], ! Attributes options
\$OVERLAY (XPL\$V_OPTIONS)

```
: R0287 1      XPL$V_VALID      = [$BIT],      | Attributes block contains valid information.
: R0288 1      XPL$V_BOLD       = [$BIT],      | Bold page reference.
: R0289 1      XPL$V_UNDERLINE = [$BIT],      | Underlined page reference.
: R0290 1      XPL$V_BEGIN     = [$BIT],      | Begin page range.
: R0291 1      XPL$V_END       = [$BIT],      | End page range.
: R0292 1      XPL$V_MASTER    = [$BIT],      | Master index entry.
: R0293 1      XPL$V_PERMUTE   = [$BIT],      | Permute index entry.
: R0294 1      XPL$V_NOPERMUTE = [$BIT],      | Set if permute explicitly forbidden.
: R0295 1      XPL$V_SORT      = [$BIT],      | Set if SORT string present.
: R0296 1      XPL$V_APPEND    = [$BIT],      | Set if append string present.
: R0297 1
: R0298 1      $CONTINUE
: R0299 1
: R0300 1      XPL$T_SORT      = [$DESCRIPTOR(DYNAMIC)], ! SORT string.
: R0301 1      XPL$T_APPEND   = [$DESCRIPTOR(DYNAMIC)], ! APPEND string.
: R0302 1
: R0303 1      TES;
: R0304 1
: R0305 1      LITERAL
: R0306 1      XPL$K_LENGTH = $FIELD_SET_SIZE;
: R0307 1
: R0308 1      MACRO
: R0309 1      $XPL_BLOCK = BLOCK [XPL$K_LENGTH] FIELD (XPL_FIELDS) %;
: R0310 1
: R0311 1
: R0312 1      | Macros for INDEX_ATTRIBUTES flags
: R0313 1
: R0314 1      MACRO
: R0315 1      XPLUS$V_VALID      = 0, 0, 1, 0 %,      | Set if attributes data is valid.
: R0316 1      XPLUS$V_BOLD       = 0, 1, 1, 0 %,      | Set if page reference is bolded.
: R0317 1      XPLUS$V_UNDERLINE = 0, 2, 1, 0 %,      | Set if page reference is underlined.
: R0318 1      XPLUS$V_BEGIN     = 0, 3, 1, 0 %,      | Set if entry begins a page range.
: R0319 1      XPLUS$V_END       = 0, 4, 1, 0 %,      | Set if entry ends a page range.
: R0320 1      XPLUS$V_MASTER    = 0, 5, 1, 0 %,      | Set if master index entry only.
: R0321 1      XPLUS$V_PERMUTE   = 0, 6, 1, 0 %,      | Set if entry is to be permuted.
: R0322 1      XPLUS$V_NOPERMUTE = 0, 7, 1, 0 %,      | Set if permute is explicitly forbidden.
: R0323 1      XPLUS$V_SORT      = 0, 8, 1, 0 %,      | Set if entry contains a SORT string.
: R0324 1      XPLUS$V_APPEND    = 0, 9, 1, 0 %,      | Set if entry contains an APPEND string.
: R0325 1
: R0326 1      !
```

End of NDXXPL.REQ

NDXINI
V04-000

NDXINI -- Once only initialization and global d H 9
16-Sep-1984 01:02:31
14-Sep-1984 13:07:13 VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXINI.BLI;1

Page 11
(2)

: 91

0327 1
0328 1 REQUIRE 'REQ:NDXPOL';

R0329 1
R0330 1 Version: 'V04-000'
R0331 1
R0332 1 *****
R0333 1 *
R0334 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
R0335 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
R0336 1 * ALL RIGHTS RESERVED.
R0337 1 *
R0338 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
R0339 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
R0340 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
R0341 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
R0342 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
R0343 1 * TRANSFERRED.
R0344 1 *
R0345 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
R0346 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
R0347 1 * CORPORATION.
R0348 1 *
R0349 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0350 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
R0351 1 *
R0352 1 *
R0353 1 * *****
R0354 1
R0355 1
R0356 1 ++
R0357 1 FACILITY:
R0358 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility
R0359 1
R0360 1 ABSTRACT:
R0361 1 This file contains literals and macros defining the data structures
R0362 1 found in the internal index pool
R0363 1
R0364 1 ENVIRONMENT: Transportable
R0365 1
R0366 1 AUTHOR: JPK
R0367 1
R0368 1 CREATION DATE: January 1982
R0369 1
R0370 1 MODIFIED BY:
R0371 1
R0372 1 003 JPK00015 04-Feb-1983
R0373 1 Cleaned up module names, modified revision history to
R0374 1 conform with established standards. Updated copyright dates.
R0375 1
R0376 1 002 JPK00009 24-Jan-1983
R0377 1 Modified to enhance performance. The sort buckets have each
R0378 1 been divided into 27 sub-buckets; 1 for each letter and 1
R0379 1 for non-alphas. Removed reference to BUCKET from INDEX.
R0380 1 Definition of the structure was added to NDXPOL. References
R0381 1 to BUCKET were changed in modules NDXOUT, NDXINI, NDXFMT
R0382 1 and NDXDAT.
R0383 1
R0384 1 --
R0385 1

```
R0386 1 ! Index entry
R0387 1
R0388 1 $FIELD_XE_FIELDS =
R0389 1     SET
R0390 1
R0391 1     XESA_PREV      = [$ADDRESS],           ! Link to previous item
R0392 1     XESA_NEXT       = [$ADDRESS],           ! Link to next item
R0393 1     XESA_SUBX      = [$ADDRESS],           ! Sub index pointer
R0394 1     XESA_REF       = [$ADDRESS],           ! Reference pointer
R0395 1     XESA_TEXT       = [$ADDRESS],           ! Pointer to text of index item
R0396 1     XESA_SORT_AS   = [$ADDRESS],           ! Pointer to SORT_AS string
R0397 1     XESH_SUBC      = [$SHORT_INTEGER],      ! Sub index level
R0398 1
R0399 1     XESV_FLAGS      = [$SHORT_INTEGER],      ! Entry flags
R0400 1
R0401 1     $OVERLAY (XESV_FLAGS)
R0402 1
R0403 1     XESV_BARS      = [$BIT],             ! Change bar flag
R0404 1
R0405 1     $CONTINUE
R0406 1
R0407 1     XESA_BOOK_LIST  = [$ADDRESS]           ! Master index book name list
R0408 1
R0409 1     $ALIGN (FULLWORD)
R0410 1
R0411 1     TES;
R0412 1
R0413 1     LITERAL
R0414 1     XEK_LENGTH = $FIELD_SET_SIZE;
R0415 1
R0416 1     MACRO
R0417 1     $XE_BLOCK = BLOCK [XEK_LENGTH] FIELD (XE_FIELDS) %;
R0418 1
R0419 1 ! End of Index entry
R0420 1
R0421 1
R0422 1 ! Reference entry
R0423 1
R0424 1 $FIELD_XX_FIELDS =
R0425 1     SET
R0426 1
R0427 1     XXSA_LINK      = [$ADDRESS],           ! Link to additional entries
R0428 1     XXSA_APPEND    = [$ADDRESS],           ! APPEND text pointer
R0429 1     XXSH_PAGE      = [$SHORT_INTEGER],      ! Transaction number
R0430 1
R0431 1     XXSV_FLAGS     = [$SHORT_INTEGER],      ! Display attributes
R0432 1
R0433 1     $OVERLAY (XXSV_FLAGS)
R0434 1
R0435 1     XXSV_BOLD      = [$BIT],             ! Bold page reference
R0436 1     XXSV_UNDERLINE = [$BIT],             ! Underline page reference
R0437 1     XXSV_BEGIN     = [$BIT],             ! Begin page range
R0438 1     XXSV_END       = [$BIT],             ! End page range
R0439 1
R0440 1
R0441 1     $CONTINUE
R0442 1
R0443 1     XXSA_BOOK      = [$ADDRESS]           ! Master index book name
```

```
: R0443 1
: R0444 1      $ALIGN (FULLWORD)
: R0445 1
: R0446 1      TES;
: R0447 1
: R0448 1      LITERAL
: R0449 1      XX$K_LENGTH = $FIELD_SET_SIZE;
: R0450 1
: R0451 1      MACRO
: R0452 1      $XX_BLOCK = BLOCK [XX$K_LENGTH] FIELD (XX_FIELDS) %;
: R0453 1
: R0454 1      ! End of Reference entry
: R0455 1
: R0456 1
: R0457 1      ! Master index book reference entry
: R0458 1
: R0459 1      $FIELD XM_FIELDS =
: R0460 1      SET
: R0461 1
: R0462 1      XMSA_LINK      = [$ADDRESS],          ! Link to additional entries
: R0463 1      XMSA_BOOK       = [$ADDRESS]           ! Pointer to book name
: R0464 1
: R0465 1      TES;
: R0466 1
: R0467 1      LITERAL
: R0468 1      XMSK_LENGTH = $FIELD_SET_SIZE;
: R0469 1
: R0470 1      MACRO
: R0471 1      $XM_BLOCK = BLOCK [XMSK_LENGTH] FIELD (XM_FIELDS) %;
: R0472 1
: R0473 1      ! End of Master index book reference entry
: R0474 1
: R0475 1
: R0476 1      ! Current Entry
: R0477 1
: R0478 1      $FIELD C_FIELDS =
: R0479 1      SET
: R0480 1
: R0481 1      CSA_CURR      = [$ADDRESS],          ! Pointer to current cell
: R0482 1      CSA_PREV      = [$ADDRESS],          ! Pointer to previous cell
: R0483 1      CSA_HEAD      = [$ADDRESS],          ! Pointer to head of chain
: R0484 1
: R0485 1      $ALIGN (FULLWORD)
: R0486 1
: R0487 1      CSV_FLAGS     = [$INTEGER],         ! Current cell flags
: R0488 1
: R0489 1      SOVERLAY (CSV_FLAGS)
: R0490 1
: R0491 1      CSV_IDNS      = [$BIT]              ! Identical string flag
: R0492 1
: R0493 1      SCONTINUE
: R0494 1
: R0495 1      TES;
: R0496 1
: R0497 1      LITERAL
: R0498 1      CSK_LENGTH = $FIELD_SET_SIZE;
: R0499 1
```

```
R0500 1 MACRO
R0501 1   $C_BLOCK = BLOCK [C$K_LENGTH] FIELD (C_FIELDS) %;
R0502 1
R0503 1 ! End of current entry
R0504 1
R0505 1
R0506 1
R0507 1 Dummy datasets
R0508 1
R0509 1 LITERAL
R0510 1   DS_X_ENTRY = XE$K_LENGTH,
R0511 1   DS_XX_ENTRY = XX$K_LENGTH,
R0512 1   DS_XM_ENTRY = XMSK_LENGTH,
R0513 1   DS_X_STRING = 0;
R0514 1
R0515 1
R0516 1 Structure definition for bucket array.
R0517 1
R0518 1 Buckets are arranged so that each row represents the first letter of
R0519 1 the string and each column represents the second letter of the string.
R0520 1
R0521 1 This approach is used only for master indexes as no performance
R0522 1 improvement is realised until about 10 input files have been processed.
R0523 1
R0524 1 Indexes which are not master indexes use only the first element of
R0525 1 each row, i.e., [0, 0] ... [26, 0].
R0526 1
R0527 1 The only exception is for nonalphabetic characters which use only
R0528 1 element [0, 0]. Elements [0, 1] ... [0, 26] are not used since mapping
R0529 1 all nonalphabetics into one row loses the sort order of the first
R0530 1 character in the string. For nonalphabetics to work correctly in a two
R0531 1 dimensional bucket scheme, the array would have to be at least 127 x 127
R0532 1
R0533 1   0   1   .
R0534 1   0   ** not used : . 26
R0535 1   1   A?   AA   .
R0536 1   :
R0537 1   :
R0538 1   :
R0539 1   26  Z?  ZA  .  .  .  ZZ
R0540 1
R0541 1 STRUCTURE
R0542 1   $BUCKET_ARRAY [ROW_IDX, COL_IDX; M, N] =
R0543 1   [M * N * %UPVA[]] ($BUCKET_ARRAY + (ROW_IDX * N + COL_IDX) * %UPVAL);
R0544 1
R0545 1 !-- End of NDXPOL.REQ
```

NDXINI
V04-000

NDXINI -- Once only initialization and global d M 9
16-Sep-1984 01:02:31
14-Sep-1984 13:07:13 VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXINI.BLI;1
Page 16
(2)

: 93
: 94

0546 1
0547 1 REQUIRE 'REQ:PAGEN';

R0548 1
R0549 1 Version: 'V04-000'
R0550 1
R0551 1
R0552 1
R0553 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
R0554 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
R0555 1 * ALL RIGHTS RESERVED.
R0556 1
R0557 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
R0558 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
R0559 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
R0560 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
R0561 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
R0562 1 * TRANSFERRED.
R0563 1
R0564 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
R0565 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
R0566 1 * CORPORATION.
R0567 1
R0568 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0569 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
R0570 1
R0571 1
R0572 1 *
R0573 1
R0574 1
R0575 1 ++
R0576 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
R0577 1
R0578 1 ABSTRACT:
R0579 1 A page number carries with it not only its current value, but also
R0580 1 codes as to how those values are to be displayed when they are finally
R0581 1 output. It was decided to do it this way rather than have a separate
R0582 1 table so that the program TCX would have less trouble.
R0583 1
R0584 1 ENVIRONMENT: Transportable BLISS
R0585 1
R0586 1 AUTHOR: Rich Friday
R0587 1
R0588 1 CREATION DATE: 1978
R0589 1
R0590 1 MODIFIED BY:
R0591 1
R0592 1 004 KAD00004 Keith Dawson 07-Mar-1983
R0593 1 Global edit of all modules. Updated module names, idents,
R0594 1 copyright dates. Changed require files to BLISS library.
R0595 1
R0596 1 --
R0597 1
R0598 1 LITERAL
R0599 1 page_sct_size = 4;
R0600 1
R0601 1 LITERAL
R0602 1 sct_chapt = 1;
R0603 1 sct_index = 2;
R0604 1 sct_append = 3;

Type of section:
Chapter section.
Index section.
Appendix section.

```
R0605 1
R0606 1
R0607 1
R0608 1
R0609 1
R0610 1
R0611 1
R0612 1
R0613 1
R0614 1
R0615 1
R0616 1
R0617 1
R0618 1
R0619 1
R0620 1
R0621 1
R0622 1
R0623 1
R0624 1
R0625 1
R0626 1
R0627 1

LITERAL
    sct_low      = 1;                                ! Lowest section type key.
    sct_high     = 3;                                ! Highest section type key.

MACRO
    sct_typ      = 0, 0,      4,      0 %, | Section Type (zero if none).
    sct_page_d   = 0, 4,      4,      0 %, | Display code for page number.
    sct_sub_page = 0, %BPVAL/2, %BPVAL/2, 0 %, | Subpage, if any (zero if none).
    sct_number   = 1, 0,      4,      0 %, | Type of section number.
    sct_page     = 2, 0,      4,      0 %, | Page number.
    sct_subpg_d  = 3, 0,      4,      0 %, | Display code for subpages.
    sct_chapt_d  = 3, 4,      4,      0 %, | Display code for chapters.
    sct_appen_d  = 3, 8,      4,      0 %, | Display code for appendices.
    sct_index_d  = 3, 12,     4,      0 %, | Display code if indexes.

MACRO
    sct_run_page = 3, %BPVAL/2, %BPVAL/2, 0 %; ! Running page number.

MACRO
    page_definition = BLOCK [page_sct_size] %;

!
End of PAGEN.REQ
```

```
: 95      0628 1
96      0629 1 SWITCSES LIST (NOREQUIRE);
97      0630 1
98      0631 1 | MACROS:
99      0632 1
100     0633 1 | EQUATED SYMBOLS:
101     0634 1
102     0635 1
103     0636 1
104     0637 1
105     0638 1 GLOBAL LITERAL
106     0639 1 TAB = %0'11' : UNSIGNED (8), | TAB character
107     0640 1 TMSCOL = 39; | Default TMS column width
108     0641 1 RINTES = %0'34' : UNSIGNED (8), | RUNOFF escape sequence character
109     0642 1 MAXLST = 10; | Maximum subindex depth
110     0643 1 MAXLIN = 80; | Maximum number of lines per page
111     0644 1
112     0645 1 LITERAL
113     0646 1 TRUE = 1;
114     0647 1 FALSE = 0;
115     0648 1
116     0649 1 | OWN STORAGE:
117     0650 1
118     0651 1
119     0652 1
120     0653 1 GLOBAL
121     0654 1 OUTIOB : $XPO IOB (), | Output file IOB
122     0655 1 CMDBLK : $NDXTCMD, | Command line information block
123     0656 1 XPLBLK : $XPL_BLOCK, | Extended indexing information block
124     0657 1 PAGEN : PAGE_DEFINITION; | Page reference block
125     0658 1
126     0659 1 GLOBAL
127     0660 1 BUCKET : $BUCKET_ARRAY [27, 27]; | Hashing buckets
128     0661 1 | There are 26 buckets for letters, and
129     0662 1 | one for all other characters.
130     0663 1 GLOBAL
131     0664 1 LSTPTR : REF $XE_BLOCK, | Index level
132     0665 1 INDLVL, | Temporary entry stack
133     0666 1 LSTSTK : VECTOR [MAXLST + 1];
134     0667 1
135     0668 1 GLOBAL
136     0669 1 NDXPOL : INITIAL (0), | Index pool variables
137     0670 1 NDXSGE : INITIAL (0), | Address of indexing pool
138     0671 1 NDXSGF : INITIAL (0); | End of current segment.
139     0672 1
140     0673 1 GLOBAL
141     0674 1 XTNPOL : INITIAL (0); | Transaction pool variables
142     0675 1 XTCNT : INITIAL (0); | Address of transaction pool
143     0676 1 XTNLSP : INITIAL (0); | Number of XTNTAB entries
144     0677 1 XTNLSX : INITIAL (0);
145     0678 1 XTNSGP : INITIAL (0);
146     0679 1 XTNTAB : INITIAL (0); | List of transaction numbers assigned
147     0680 1 XPAGEN : INITIAL (0);
148     0681 1
149     0682 1 GLOBAL
150     0683 1 BOOKID : INITIAL (0); | Address of master index book id
151     0684 1
```

```
: 152      0685 1 GLOBAL                                ! Line and page counting variables
.: 153      0686 1 PAGENO : INITIAL (0),                ! Page number
.: 154      0687 1 ALLOWD,                               ! Usable lines per page
.: 155      0688 1 LCOUNT,                               ! Number of lines in left column
.: 156      0689 1 RCOUNT,                               ! Number of lines in right column
.: 157      0690 1 TCOUNT;                             ! Number of lines in temp column
.: 158      0691 1
.: 159      0692 1
.: 160      0693 1 NOTE: The vectors and blockvectors below have two extra entries allocated.
.: 161      0694 1 The zeroth entry is used to save the telltale strings for the column.
.: 162      0695 1 The last entry is so that there will always be an available line at
.: 163      0696 1 the end of the column.
.: 164      0697 1
.: 165      0698 1 The temp column is used during the generation of the index as a
.: 166      0699 1 temporary save area for lines that are moved from one column to
.: 167      0700 1 another. It is also used during generation of the last page of
.: 168      0701 1 two column output.
.: 169      0702 1
.: 170      0703 1 GLOBAL
.: 171      0704 1 LTYPE : VECTOR [MAXLIN + 2],           ! Left column line types
.: 172      0705 1 LLINES : BLOCKVECTOR [MAXLIN + 2, STR$K_D_BLN], ! Left column string descriptors
.: 173      0706 1 RTYPE : VECTOR [MAXLIN + 2],           ! Right column line types
.: 174      0707 1 RLINES : BLOCKVECTOR [MAXLIN + 2, STR$K_D_BLN], ! Right column string descriptors
.: 175      0708 1 TTYPY : VECTOR [MAXLIN + 2],           ! Temp column line types
.: 176      0709 1 TLINES : BLOCKVECTOR [MAXLIN + 2, STR$K_D_BLN]; ! Temp column string descriptors
.: 177      0710 1
.: 178      0711 1
.: 179      0712 1 EXTERNAL REFERENCES:
.: 180      0713 1
```

```
0714 1 %SBTTL 'GLOBAL ROUTINE NDXINI -- Once only initialization'
0715 1 GLOBAL ROUTINE NDXINI : NOVALUE =
0716 1 ++
0717 1
0718 1 FUNCTIONAL DESCRIPTION:
0719 1
0720 1 This routine is called by the command line interface routine
0721 1 to do once only initialization of global data structures.
0722 1
0723 1 FORMAL PARAMETERS:
0724 1
0725 1 None.
0726 1
0727 1 IMPLICIT INPUTS:
0728 1
0729 1 None.
0730 1
0731 1 IMPLICIT OUTPUTS:
0732 1
0733 1 CMDBLK - Command line information block is initialized
0734 1 XPLBLK - Extended indexing attributes block is initialized
0735 1 LLINES - Left column string descriptors are initialized
0736 1 RLINES - Right column string descriptors are initialized
0737 1 TLINES - String descriptors for right column on last page
0738 1
0739 1 ROUTINE VALUE:
0740 1 COMPLETION CODES:
0741 1
0742 1 None.
0743 1
0744 1 SIDE EFFECTS:
0745 1
0746 1 None.
0747 1 --
0748 2 BEGIN
0749 2
0750 2 Initialize the command line information block
0751 2
0752 2 CMDBLK [NDX$V OPTIONS] = 0;
0753 2 $STR_DESC_INIT (DESCRIPTOR = CMDBLK [NDX$T_MASTER BOOK], CLASS = DYNAMIC);
0754 2 $STR_DESC_INIT (DESCRIPTOR = CMDBLK [NDX$T_INPUT FILE], CLASS = DYNAMIC);
0755 2 $STR_DESC_INIT (DESCRIPTOR = CMDBLK [NDX$T_OUTPUT FILE], CLASS = DYNAMIC);
0756 2 $STR_DESC_INIT (DESCRIPTOR = CMDBLK [NDX$T_REQUIRE FILE], CLASS = DYNAMIC);
0757 2 $STR_DESC_INIT (DESCRIPTOR = CMDBLK [NDX$T_COMMAND LINE], CLASS = DYNAMIC);
0758 2
0759 2
0760 2 Initialize related file specification descriptor. This string is
0761 2 set to the resultant input file specification by NDXINP for every
0762 2 input file which is not concatenated to the previous one. Thus the
0763 2 related file name for a series of concatenated input files is the
0764 2 resultant file name of the first file in the series.
0765 2
0766 2 $STR_DESC_INIT (DESCRIPTOR = CMDBLK [NDX$T RELATED FILE], CLASS = DYNAMIC);
0767 2
0768 2
0769 2 Initialize extended indexing attributes block
0770 2
```

```

: 239      0771 2     XPLBLK [XPL$V VALID] = FALSE;           ! No extended indexing attributes seen yet
: 240      0772 2     $STR_DESC_INIT (DESCRIPTOR = XPLBLK [XPL$T_SORT], CLASS = DYNAMIC);
: 241      0773 2     $STR_DESC_INIT (DESCRIPTOR = XPLBLK [XPL$T_APPEND], CLASS = DYNAMIC);
: 242      0774 2
: 243      0775 2
: 244      0776 2     | Initialize string descriptors used to build a page of output
: 245      0777 2
: 246      0778 2     INCR I FROM 0 TO MAXLIN + 1 DO
: 247      0779 3       BEGIN
: 248      0780 3       $STR_DESC_INIT (DESCRIPTOR = LLINES [.I, 0,0,0,0], CLASS = DYNAMIC);
: 249      0781 3       $STR_DESC_INIT (DESCRIPTOR = RLINES [.I, 0,0,0,0], CLASS = DYNAMIC);
: 250      0782 3       $STR_DESC_INIT (DESCRIPTOR = TLINES [.I, 0,0,0,0], CLASS = DYNAMIC);
: 251      0783 2       END;
: 252      0784 2
: 253      0785 1     END;

```

.TITLE NDXINI NDXINI -- Once only initialization and g
lobal d

.IDENT \V04-000\

.PSECT \$GLOBALS\$,NOEXE,2

00000	OUTIOB:::BLKB	244
000F4	CMDBLK:::BLKB	80
00144	XPLBLK:::BLKB	20
00158	PAGEN:::BLKB	16
00168	BUCKET:::BLKB	2916
00CCC	LSTPTR:::BLKB	4
00CDO	INDLVL:::BLKB	4
00CD4	LSTSTK:::BLKB	44
000000000	00D00 NDXPOL:::LONG	0
000000000	00D04 NDXSGE:::LONG	0
000000000	00D08 NDXSGF:::LONG	0
000000000	00D0C XTNPOL:::LONG	0
000000000	00D10 XTN_CNT:::LONG	0
000000000	00D14 XTN_LSP:::LONG	0
000000000	00D18 XTN_LSX:::LONG	0
000000000	00D1C XTN_SGP:::LONG	0
000000000	00D20 XTN_TAB:::LONG	0
000000000	00D24 XPAGEN:::LONG	0
000000000	00D28 BOOKID:::LONG	0
000000000	00D2C PAGENO:::LONG	0
000000000	00D30 ALLOWD:::BLKB	4
000000000	00D34 LCOUNT:::BLKB	4
000000000	00D38 RCOUNT:::BLKB	4
000000000	00D3C TCOUNT:::BLKB	4
000000000	00D40 LTYPE:::BLKB	328
00E88	LLINES:::BLKB	656
01118	RTYPE:::BLKB	328
01260	RLINES:::BLKB	656
014F0	TTYPE:::BLKB	328
01638	TLINES:::BLKB	656

TAB==	9
TMSCOL==	39
RINTES==	28

```

MAXLST==      10
MAXLIN==     80
$STR$DESC=  CMDBLK+32
$STR$BIN_DESC= CMDBLK+32
$STR$DESC=  CMDBLK+40
$STR$BIN_DESC= CMDBLK+40
$STR$DESC=  CMDBLK+48
$STR$BIN_DESC= CMDBLK+48
$STR$DESC=  CMDBLK+56
$STR$BIN_DESC= CMDBLK+56
$STR$DESC=  CMDBLK+72
$STR$BIN_DESC= CMDBLK+72
$STR$DESC=  CMDBLK+64
$STR$BIN_DESC= CMDBLK+64
$STR$DESC=  XPLBLK+4
$STR$BIN_DESC= XPLBLK+4
$STR$DESC=  XPLBLK+12
$STR$BIN_DESC= XPLBLK+12

```

.PSECT \$CODE\$,NOWRT,2

			0004 00000		.ENTRY	NDXINI, Save R2	0715
		52 00000000'	EF 9E 00002		MOVAB	CMDBLK, R2	0752
			62 D4 00009		CLRL	CMDBLK	0753
20	A2 020E0000	24	8F D0 0000B		MOVL	#34471936, \$STR\$DESC	0754
			A2 D4 00013		CLRL	\$STR\$DESC+4	0755
28	A2 020E0000	2C	8F D0 00016		MOVL	#34471936, \$STR\$DESC	0756
			A2 D4 0001E		CLRL	\$STR\$DESC+4	0757
30	A2 020E0000	34	8F D0 00021		MOVL	#34471936, \$STR\$DESC	0758
			A2 D4 00029		CLRL	\$STR\$DESC+4	0759
38	A2 020E0000	3C	8F D0 0002C		MOVL	#34471936, \$STR\$DESC	0760
			A2 D4 00034		CLRL	\$STR\$DESC+4	0761
48	A2 020E0000	4C	8F D0 00037		MOVL	#34471936, \$STR\$DESC	0762
			A2 D4 0003F		CLRL	\$STR\$DESC+4	0763
40	A2 020E0000	44	8F D0 00042		MOVL	#34471936, \$STR\$DESC	0764
			A2 D4 0004A		CLRL	\$STR\$DESC+4	0765
50	A2 020E0000	51	01 8A 0004D		BICB2	#1 XPLBLK	0766
			D0 00051		MOVL	#34471936, \$STR\$DESC	0767
54	A2 020E0000	58	8F D0 00059		CLRL	\$STR\$DESC+4	0768
			A2 D4 00059		MOVL	#34471936, \$STR\$DESC	0769
5C	A2 020E0000	60	8F D0 0005C		CLRL	\$STR\$DESC+4	0770
			A2 D4 00064		CLRL	I	0771
			50 D4 00067		MOVAQ	LLINES[I], R1	0772
51	0D94 C240	7E 00069	1\$:		MOVL	#34471936, (R1)	0773
61	020E0000	8F D0 0006F			CLRL	4(R1)	0774
		04 A1 D4 00076			MOVAQ	RLINES[I], R1	0775
51	116C C240	7E 00079			MOVL	#34471936, (R1)	0776
61	020E0000	8F D0 0007F			CLRL	4(R1)	0777
		04 A1 D4 00086			MOVAQ	T_LINES[I], R1	0778
51	1544 C240	7E 00089			MOVL	#34471936, (R1)	0779
61	020E0000	8F D0 0008F			CLRL	4(R1)	0780
		04 A1 D4 00096			AOBLEQ	#81, I, 1\$	0781
C8	50 00000051	8F F3 00099			RET		0782
		04 000A1					0783

; Routine Size: 162 bytes, Routine Base: \$CODE\$ + 0000

NDXINI
V04-000

H 10
NDXINI -- Once only initialization and global d 16-Sep-1984 01:02:31
GLOBAL ROUTINE NDXINI -- Once only initializati 14-Sep-1984 13:07:13

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]NDXINI.BLI;1

Page 24
(3)

: 254 0786 1
: 255 0787 1 END
: 256 0788 0 ELUDOM

: ! End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBAL\$	6344 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	
\$CODE\$	162 NOVEC,NOWRT, RD ; EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	
. ABS .	0 NOVEC,NOWRT,NORD ;NOEXE,NOSHR, LCL, ABS, CON,NOPIC,ALIGN(0)	

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_255\$DUA28:[SYSLIB]XPORT.L32:1	590	130	22	252	00:00.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:\$NDXINI/OBJ=OBJ\$:\$NDXINI MSRC\$:\$NDXINI/UPDATE=(ENH\$:\$NDXINI)

: Size: 162 code + 6344 data bytes
: Run Time: 00:30.9
: Elapsed Time: 01:03.4
: Lines/CPU Min: 1530
: Lexemes/CPU-Min: 89295
: Memory Used: 155 pages
: Compilation Complete

0344 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

NOXINI
LIS

NOXOUT
LIS

NOXOUT
LIS