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| **Variable** | **Contents** |
| SYSDSNAME | Data set name |
| SYSVOLUME | Volume serial ID |
| SYSUNIT | Generic device type on which volume resides, for example 3390. |
| SYSDSORG | Data set organization:  PS  - Physical sequential  PSU  - Physical sequential unmovable  DA  - Direct organization  DAU  - Direct organization unmovable  IS  - Indexed sequential  ISU  - Indexed sequential unmovable  PO  - Partitioned organization  POU  - Partitioned organization unmovable  VS  - VSAM  ???  - Unknown |
| SYSRECFM | Record format; one to six character combination of the following:  U  - Records of undefined length  F  - Records of fixed length  V  - Records of variable length  T  - Records written with the track overflow feature of the device (no currently supported device supports the track overflow feature)  B  - Records blocked  S  - Records written as standard or spanned variable-length blocks  A  - Records contain ANSI control characters  M  - Records contain machine code control characters  ??????  - Unknown |
| SYSLRECL | Logical record length |
| SYSBLKSIZE | Block size |
| SYSKEYLEN | Key length |
| SYSALLOC | Allocation, in space units |
| SYSUSED | Allocation used, in space units. For a partitioned data set extended (PDSE), 'N/A' will be returned; see the description of the variable SYSUSEDPAGES for used space of a PDSE. |
| SYSUSEDPAGES | The used space of a partitioned data set extended (PDSE) in 4K pages. |
| SYSPRIMARY | Primary allocation in space units |
| SYSSECONDS | Secondary allocation in space units |
| SYSUNITS | Space units:  CYLINDER  - Space units in cylinders  TRACK  - Space units in tracks  BLOCK  - Space units in blocks  ????????  - Space units are unknown |
| SYSEXTENTS | Number of extents allocated |
| SYSUSEDEXTENTS | Indicates the number of extents used. For a partitioned data set extended (PDSE), this variable returns 'N/A'; see the descriptions of variables SYSUSEDPAGES and SYSUSEDPERCENT for more information about used space of a PDSE. |
| SYSCREATE | Creation date  Year/day format, for example: 1990/102 |
| SYSREFDATE | Last referenced date  Year/day format, for example: 2010/107  Specifying DIRECTORY or SMSINFO may cause the last referenced date to be updated to the current date under the following circumstances:   * Specifying DIRECTORY causes the date to be updated only if the data set is a PDS and the user running LISTDSI has RACF READ authority to the data set. In all other cases, including when the data set is a PDSE, DIRECTORY has no effect on this date. * Specifying SMSINFO causes the date to be updated only if the data set is a PDSE and the user running LISTDSI has RACF READ authority to the data set. In all other cases, SMSINFO has no effect on this date. |
| SYSEXDATE | Expiration date  Year/day format, for example: 1990/365 |
| SYSPASSWORD | Password indication:  NONE  - No password protection  READ  - Password required to read  WRITE  - Password required to write |
| SYSRACFA | RACF indication:  NONE  - No RACF protection  GENERIC  - Generic profile covers this data set  DISCRETE  - Discrete profile covers this data set |
| SYSUPDATED | Backup change indicator:  YES  - Data set has been updated since its last backup by DFSMShsm (or its equivalent).  NO  - Data set has not been updated since its last backup. |
| SYSTRKSCYL | Tracks per cylinder for the unit identified in the SYSUNIT variable |
| SYSBLKSTRK | Blocks (whose size is given in variable SYSBLKSIZE) per track for the unit identified in the SYSUNIT variable. For a PDSE, the value N/A is returned because a block of size SYSBLKSIZE can 'span' a track in a PDSE. The value contained in SYSUSEDPAGES is a more meaningful measurement of space usage for a PDSE. |
| SYSADIRBLK | For a partitioned data set (PDS) the number of directory blocks allocated will be returned. For a partitioned data set extended (PDSE), NO\_LIM will be returned because there is no static allocation for its directory. A value is returned only if DIRECTORY is specified on the LISTDSI statement. |
| SYSUDIRBLK | For a partitioned data set (PDS) the number of directory blocks used will be returned. For a partitioned data set extended (PDSE), N/A will be returned because it is not a static value. A value is returned only if DIRECTORY is specified on the LISTDSI statement. |
| SYSMEMBERS | Number of members - returned only for partitioned data sets when DIRECTORY is specified |
| SYSREASON | LISTDSI reason code |
| SYSMSGLVL1 | First-level message if an error occurred |
| SYSMSGLVL2 | Second-level message if an error occurred |
| SYSDSSMS | Contains information about the type of a data set, provided by DFSMS/MVS.  If the SMS data set type could not be retrieved, the SYSDSSMS variable contains:  SEQ  for a sequential data set  PDS  for a partitioned data set  PDSE  for a partitioned data set extended.  If the data set is a PDSE and the SMSINFO operand was specified on the LISTDSI call and SMS data set type information could be retrieved, the SYSDSSMS variable contains:  LIBRARY  for an empty PDSE  PROGRAM\_LIBRARY  for a partitioned data set extended program library  DATA\_LIBRARY  for a partitioned data set extended data library. |

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| Note: This detailed data set type information for a PDSE is not returned if the user issuing the LISTDSI call does not have RACF READ authority to the data set. |
| SYSDATACLASS(1) | The SMS data class name - returned only if SMSINFO is specified on the LISTDSI statement and the data set is managed by SMS. |
| SYSSTORCLASS(1) | The SMS storage class name - returned only if SMSINFO is specified on the LISTDSI statement and the data set is managed by SMS. |
| SYSMGMTCLASS(1) | The SMS management class name - returned only if SMSINFO is specified on the LISTDSI statement and the data set is managed by SMS. |
| SYSSEQDSNTYPE | Indicates the type of sequential data set:  BASIC - regular sequential data set  LARGE - large sequential data set  EXTENDED - extended sequential data set  If the data set is not sequential, this variable returns a null string. |
| SYSEATTR | Indicates the current status of the EATTR bits in the DSCB that describe the EAS eligibility status of a data set. The EAS can only contain data sets that are EAS-eligible.  Default blank indicates that the EATTR bits are ‘00’b. The defaults for EAS eligibility apply:  - VSAM data sets are EAS-eligible, and can have extended attributes (format 8 and 9 DSCBs).  - Non-VSAM data sets are not EAS-eligible, and cannot have extended attributes (format 8 and 9 DSCBs).  NO  Indicates that ‘01’b is specified for the EATTR bits. The data set is not EAS-eligible, and cannot have extended attributes (format 8 and 9 DSCBs).  OPT  Indicates that ‘10’b is specified for the EATTR bits. The data set is ESA-eligible, and can have extended attributes (format 8 and 9 DSCBs). |
| SYSEADSCB | Indicates whether the data set has extended attributes:  YES  The data set has extended attributes (format 8 and 9 DSCBs) and can reside in the EAS.  NO  The data set does not have extended attributes (format 8 and 9 DSCBs) and can not reside in the EAS. |
| SYSALLOCPAGES | Indicates number of pages allocated to a PDSE. |
| SYSUSEDPERCENT | Indicates percentage of pages used out of pages allocated for a PDSE. This is a number from 0 to 100, rounded down to the nearest integer value. |
| SYSNUMVOLS | Indicates a number from 1 to 59 as tape is not supported, but will always return 1 if a volume is specified, instead of trying LOCATE all volumes for the data set. |
| SYSVOLUMES | Indicates up to 412 characters with a list of volumes separated by spaces where the first six characters will always match SYSVOLUME and each volume name takes up six spaces padded with blanks to help simplify parsing. If a volume is specified on the LISTDSI call, just that volume name is returned. |
| SYSCREATETIME | Indicates the time a data set was created in the format *hh:mm:ss* where *hh* is hours since midnight, *mm* is minutes since midnight, and *ss* is seconds since midnight. This variable is only set for EAV data sets and can be used together with the SYSCREATE variable to determine the date and time when a data set was created. |
| SYSCREATESTEP | Indicates the name of the job step that created the data set. |
| SYSCREATEJOB | Indicates the name of the job that created the data set. |