CBLVCAT Rel 2.10 − New Features

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Information in this New Feature List, reflecting differences between **CBLVCAT** Rel 2.00 and **CBLVCAT** Rel 2.10, is subject to alteration at the sole discretion of Compute (Bridgend) Ltd.

Contents

IMPORTANT CHANGES

All: CBL Interactive (CBLi)

Although not a change that will affect existing use, the introduction of an interactive capability is nevertheless very important, so is mentioned here for the benefit of users who read only the important changes.

Please see **New Facilities** below for more information.

All: 31−bit Addressability

CBLVCAT has been updated to support 31−bit addressing and is now linked as AMODE=31 on all platforms. This overcomes previous storage restrictions, allowing CBLVCAT to utilise buffers in storage above the 16MB line.

All: Build Level

The release and build level of the executing CBLVCAT program is now displayed in the report footing as follows:

Previous releases displayed:

The release and build level of the CBLi interface is displayed on the main window below the CBLi logo:

All: File Sizes > 4GB

The values obtained from the catalog and displayed in LISTVCAT fields generated with REPORT VCAT parameters HIUSERBA, HIALLRBA and FREEBYTES, have been corrected for MVS data sets defined with the SMS DATACLASS attribute "Extended Addressability" and VSE VSAM clusters defined with IDCAMS attribute "EXTRALARGEDATASET".

In earlier releases of CBLVCAT, these fields displayed the Relative CI Address as opposed to the Relative Byte Address. In cases where the file size is > 4GB, this resulted in an 0C9 Fixed−Point divide exception. As a temporary measure, this abend was bypassed in CBLVCAT Rel 2.00 with application of Zap 03 which forced "WARN 022 − CONFLICTING CATALOG STATISTICS".

LISTVCAT TUNE recommendations for these types of file are now adjusted accordingly.

NEW FACILITIES

All: CBLi − CBL Interactive Environment

CBL Interactive (CBLi) provides all authorised users with a powerful interactive environment for executing CBLVCAT and SELCOPY.

In future CBLi will be supplied as an integral part of each product and is discussed briefly below.

CBLi allows interactive execution of CBLVCAT control statements sourced from a data set or via a command line. The generated report is stored in internal buffers and presented to the user in a window area with coloured highlighting. The report may be edited and optionally saved to a data set.

In addition to the traditional CBLVCAT report, a list window is generated containing **all** of the standard width REPORT fields available for LISTVCAT customised report output.

Where LISTVCAT option DEFINE is specified, an edit window is automatically opened for the CBLVCAT generated IDCAMS DEFINE job, thus allowing alteration by the user before submission.

See seperate CBLi pages for further information.

All: Command −V

The command −V (uppercase) has been introduced to output information on the CBLVCAT build level to SYSLOG/SYSLST. e.g.

All: LISTVCAT SUBSET Parameters

New LISTVCAT SUBSET parameters have been introduced to select on data sets that have attributes relating to MVS SMS Extended Format and VSE IDCAMS EXTRALARGEDATASET.

EXTENDED (or EXT)

For MVS, selects all data sets (VSAM and non−VSAM) that have been defined with SMS DATACLASS attribute DSNTYPE=EXT.
For VSE, EXTENDED is a synonym for EXT−ADDR.

XVSAM

For MVS, selects only **VSAM** data sets that have been defined with SMS DATACLASS attribute DSNTYPE=EXT. (XVSAM is a synonym for EXTENDED TYPE=M).
For VSE, XVSAM is a synonym for EXT−ADDR.

EXT−ADDR (or EXTA)

For MVS, selects all data sets that have been defined with SMS DATACLASS attribute Extended Addressability.
For VSE, selects all VSAM KSDS clusters that have been defined with IDCAMS DEFINE option EXTRALARGEDATASET.

COMPRESSED (or CMP)

For MVS, selects all data sets that have been defined with SMS DATACLASS attribute COMPACTION.
For VSE, selects all VSAM KSDS clusters that have been defined with IDCAMS DEFINE option COMPRESSED.

STRIPED (or STR)

For MVS, selects all data sets that have been defined with SMS STORAGECLASS having a non−zero Sustained Data Rate (SDR) value.
For VSE, SUBSET STRIPED is ignored.

All: REPORT VCAT EXT

REPORT VCAT parameter EXT has been introduced to display characteristics of MVS Data Set Names of Type Extended and VSE files defined as EXTRALARGEDATASET, as part of a customised report.

The column width is 4 and the heading is **EXT−ATTRIB**.

Possible entries in this column are as follows: **X**
Data set is defined as being Extended. **A**
Data set is defined as being of Extended Addressability or, for VSE, defined with EXTRALARGEDATASET. (Extended flag is also displayed). **C(x)**
Data set is defined as being Compressed (or Compacted for Tape volumes).
For MVS, x indicates the type of compression. Possible values are: C(G) − Generic DBB (DIctionary Building Block) compression. C(T) − Tailored compression. C(R) − Compression Rejected.
For VSE, x indicates the compression status. Possible values are: C(P) − Compression Pending. C(A) − Compression Active. C(R) − Compression Rejected. C(U) − Compression Undetermined. **S(nn)**
Data set is defined as being Striped and has nn stripes (>1).

All: LISTVCAT CBLVCSW9=X'10' for TYPE Entries

REPORT VCAT parameter TYPE (included as part of a standard LISTVCAT report), displays the data set type based on its DSORG, RECORG, etc.

CBLVCAT now overwrites the 4th byte of the type field with 'X' if an MVS data set is defined with Extended Addressability or if a VSE VSAM cluster is defined with EXTRALARGEDATASET. Therefore, a KSDS data set with Extended Addressability will be reported as type **KSDX**, an ESDS data set with Extended Addressability will be reported as type **ESDX**, etc.

Setting **CBLVCSW9=X'10'** bit on will suppress this overwrite so that entries will be displayed as for earlier releases of CBLVCAT.

CBLVCSW9=X'10' may be set, either by coding LISTVCAT OPTION CBLVCSW9=X'10' in the CBLVCAT control statements or applying a systemwide change in CBLNAME MODULE/PHASE.

Example: **LISTVCAT CBLVCSW9=X'10'**

All: LISTVCAT CBLVCSW9=X'08' for Hex DEVICE Type

REPORT VCAT parameter VOL2/4/5 for customised reports, prints the DEVICE column indicating the device type of the volume on which extents exist for a non−VSAM data set.

Setting **CBLVCSW9=X'08'** bit on, either by coding LISTVCAT OPTION CBLVCSW9=X'08' in the CBLVCAT control statements or applying a systemwide change in CBLNAME MODULE/PHASE, forces hexadecimal representation of the device type.

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Example: **LISTVCAT CBLVCSW9=X'08'**

MVS: LISTVTOC SUBSET TYPE=P1 and P2

LISTVTOC SUBSET parameter **TYPE=P1** has been introduced to select on Partitioned Data Sets (PDS) only. Similarly, SUBSET parameter **TYPE=P2** selects on Partitioned Data Sets Extended (PDSE) only.

LISTVTOC SUBSET parameter **TYPE=P** selects both PDS and PDSE.

MVS: LISTVTOC TYPE Entry PDSE

REPORT VTOC parameter TYPE (included as part of a standard LISTVTOC report), displays the data set type based on its DSORG.

Extended Partioned Data Sets are now reported as type **PDSE**. In earlier releases, PDSEs were reported as type PDS.

MVS: LISTVCAT KEY=hlq

For **MVS** systems only, the LISTVCAT KEY parameter may be used without **DDNAME=** or **REF=** to select only data sets that **start** with the KEY argument.

The KEY argument must contain at least the high level qualifier (hlq) from which CBLVCAT can generate an implied REF=hlq.

is equivalent to:

Note that **KEY=/string** still requires a DDNAME= or REF= on the LISTVCAT command.

VSE: LISTVCAT CAT=catalog

For **VSE** users, LISTVCAT parameter CAT= may be specified together with the catalog data set name, as an alternative to DDNAME=dlbl.

CBLVCAT will dynamically allocate the arbitrary, temporary label, **CBLVL54**, to the specified catalog data set name in order to open and read the catalog. (**L54** indicates that the length of the label information is 54 bytes).

All: RAW=fname

RAW=fname may be specified as an option on LISTVCAT, LISTVTOC or LISTLABL in order to write a record containing all available REPORT fields to fname for each dataset listed.

fname is the MVS ddname or VSE label assigned to a pre−allocated data set.

The format of the record is as follows:

LISTVCAT Fields (Max LRECL 542)

LISTVTOC Fields (Max LRECL 175)

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LISTLABL Fields (Max LRECL 136)

OTHER CHANGES

VSE: LISTLABL Report Field Entries

1. Temporary Label information is now displayed for Dynamic Classes.
2. The **SYSNO** field now displays the warning ***NO***, instead of blanks, when no logical unit is associated with a label for a non−VSAM file that has fname not equal to **IJSYSxx**.
3. The **VOLUME** field displays the warning ***NO***, instead of blanks, when a label for a non−VSAM file has no associated **EXTENT** information.

Traditionally, a field entry accompanied by an asterisk (*) is used by CBLVCAT to indicate a warning condition. However, where no SYSNO or VOLUME entry is found, usually because there is no associated EXTENT information, asterisks enclose the **NO** entry merely to allow the user to disregard it as a valid volume id or LUB entry.

All: LISTVCAT DEFINE Parameters

The IDCAMS DEFINE job statements generated when option DEFINE is specified on LISTVCAT, have been updated to include the following where applicable:

- For **VSE** IDCAMS only, **EXTRALARGEDATASET** as a parameter on DEFINE CLUSTER.
- For **MVS** IDCAMS only, the SMS classes for MANAGEMENTCLASS, DATACLASS and STORAGECLASS parameters on DEFINE CLUSTER.

All: OPT − abbreviation for OPTIONS

OPT has been introduced as another abbreviation for the command **OPTIONS**. Current abbreviation is **OPTION**. This brings CBLVCAT into line with the CBL software product **SELCOPY**.

All: TY − abbreviation for TYPE

TY has been introduced as an abbreviation for the SUBSET parameter **TYPE**. This brings CBLVCAT into line with the CBL software product **SELCOPY**.

All: New Error Messages

For **MVS** only, ERROR 13 is returned if the CBLV program is not authorised (Link Edited with option AC=1) or is not Link Edited in an authorised load library, and a catalog listing is requested. Previously, this would cause an abend IEC161I followed by ERROR 051.

General warning returned by CBLVCAT when unexpected values are found in the VSAM/ICF catalog or VVDS.

All: Bug Fix

For VSAM catalogs, where the unit for Allocation values is indicated to be in CYLs instead of TRKs, the value reported is accordingly multiplied by the track size.

All: Zaps Applied

Zaps 01−07 of **CBLVCAT** Rel 2.0 have been applied at source:

1. LISTVTOC summary output for **'volser** MOUNTED ON cuu' has cuu corrupted.
2. LISTVTOC DEV=SYSALLDA causes 0C6 abend at CBLV+17795.
3. LISTVCAT gives **0C9** abend for KSDS/ESDS with High Used RBA value of >= 2GB.
4. LISTLABL SYSNO and VOLUME fields support for *NO* − New Feature.
5. For DEL or MOD operations only, expiry date is displayed as 'dd MMM yyyy'.
6. LISTVTOC TYPE PDSE for Extended PDSs.
7. CBLVCSW9=X'08' bit on forces hexadecimal DEVICE representation − New Feature.