ASG
Software Solutions

ASG-Manager Products™
IDMS\R Interface Quick Reference

Version 2.5

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Hong Kong	001.800.9932.5536	**Sweden/Telia**	009.800.9932.5536
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DATAMANAGER DEFINITION SYNTAX SUMMARY
(Version 01 Release 6.0)
FOR IDMS/R INTERFACE

This part of Terminal User's Quick Reference contains the syntax of DATAMANAGER member definitions available to form interface facilities with IDMS/R Release 10.0. It should be filed immediately following the DATAMANAGER section of this publication.

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IDMS DEFINITION SYNTAX SUMMARY

Processes Definition

The definitions are for inclusion in SYSTEM, PROGRAM or MODULE members.

PROCESSES IDMS Clauses

```
PROCESSES IDMS SUBSCHEMAS

    subschema-name [KNOWN-AS procedure-name]

        [, subschema-name [KNOWN-AS procedure-name]]...

where

subschema-name is the name of a member that is an IDMS-SUBSCHEMA

procedure-name is a name not more than eight characters
    in length, that both conforms to the rules for member names
    and is a legal CSECT name or entry point for input into
    IBM OS or DOS assemblers.
```

IDMS Data Definitions

IDMS-AREA

```
IDMS-AREA

    PAGES page-1 {TO  } page-2
                 {FOR }

        {OF} file-name BLOCK block [{TO block    }]
        {IN}                       {FOR {ALL}    }
                                        {k  }

        [{OF} file-name BLOCK block [{TO block    }]]...
        {IN}                       {FOR {ALL}    }
                                        {k  }

    [CALL process-name [KNOWN-AS procedure-name] {BEFORE}
                                                 {AFTER }
                                                 {ERROR }

        [{READY [FOR {EXCLUSIVE} [{UPDATE   }]]}]]...
                     {PROTECTED}  {RETRIEVAL}
                     {SHARED    }
                     {UPDATE    }
                     {RETRIEVAL }
         {FINISH  }
         {COMMIT  }
         {ROLLBACK}

    [common clauses]

{;}
{.}
```

where

page-1 is an integer in the range 1 to 1073741821

page-2 is an integer in the range 2 to 1073741822

file-name is the name of a FILE member identifying a physical IDMS file of which the area being defined is a part

block is an integer in the range 1 to 2147483647

k is an integer in the range 1 to 1073741822

process-name is the name of a member that is a SYSTEM, PROGRAM or MODULE

procedure-name is a name not more than eight characters in length, that both conforms to the rules for member names and is a legal CSECT name or entry point for input into IBM OS or DOS assemblers

common-clauses are as defined in the CONTROLMANAGER section of this publication.

IDMS-DATABASE

```
IDMS-DATABASE

DATASET file-name [ASSIGN external-name]
    [DEVICE device]
    [DATASET file-name [ASSIGN external-name]
    [DEVICE device]]...

    [JOURNAL ASSIGN external-name [DEVICE device]]

    AREAS area-name [, area-name]...

    SETS set-name [, set-name]...

    [STAND-ALONE record-name [, record-name]...]

    [RECORD-ID-START i]

    [MAXIMUM-RECORDS-PER-PAGE j]

    [PAGE-GROUP k]

    [common-clauses]

{;}
{.}
```

where

file-name is the name of a FILE member identifying a physical IDMS file that holds some or all of the database being defined

external-name is the logical file name used in job control statements to indicate the external data set name (physical file name) of the file identified in the DATASET clause

```
device is:
     {VSAM     }
     {KSDS     }
     {ESDS     }
     {RRDS     }
     {PATH     }
     {device-a }

     where device-a is any valid device-type

area-name is the name of a member that is an IDMS-AREA

set-name is the name of a member that is an IDMS-SET

record-name is the name of a member that is an IDMS-RECORD

i is an integer in the range 10 to 9999

j is an integer in the range 3 to 4095

k is an integer in the range 1 to 32767

common-clauses are as defined in the CONTROLMANAGER section of this
     publication.
```

IDMS-LOGICAL-RECORD

```
IDMS-LOGICAL-RECORD

     CONTAINS record-name [KNOWN-AS role-name]
          [, record-name [KNOWN-AS role-name]]...

     [ERROR {CLEAR   }]
            {NOCLEAR }

     [NOT-FOUND {CLEAR   }]
                {NOCLEAR }

     [OBTAIN PATHS path-group [, path-group]...]

     [MODIFY PATHS path-group [, path-group]...]

     [STORE PATHS path-group [, path-group]...]

     [ERASE PATHS path-group [, path-group]...]

     [common-clauses]

{;}
{.}

where

record-name is the name of a member that is an IDMS-RECORD

role-name is a 1 to 16 character name

path-group is the name of a member that is an IDMS-PATH-GROUP

common-clauses are as defined in the CONTROLMANAGER section of this
     publication
```

IDMS-PATH-GROUP

```
IDMS-PATH-GROUP

    [FOR selection [, selection]...]
    DO command [DO command]...

    [common-clauses]

{;}
{.}
```

where

selection is:

```
{KEYWORD name                                                    }
{{FIELDNAME-EQ} {item-name } [IN group-name]...                  }
{{FIELDNAME   } {group-name}                                     }
{   [OF record-name]                                             }
{RECORD record-name                                              }
```

where

name is up to 32 characters

item-name is the name of a member that is an ITEM

group-name is the name of a member that is a GROUP

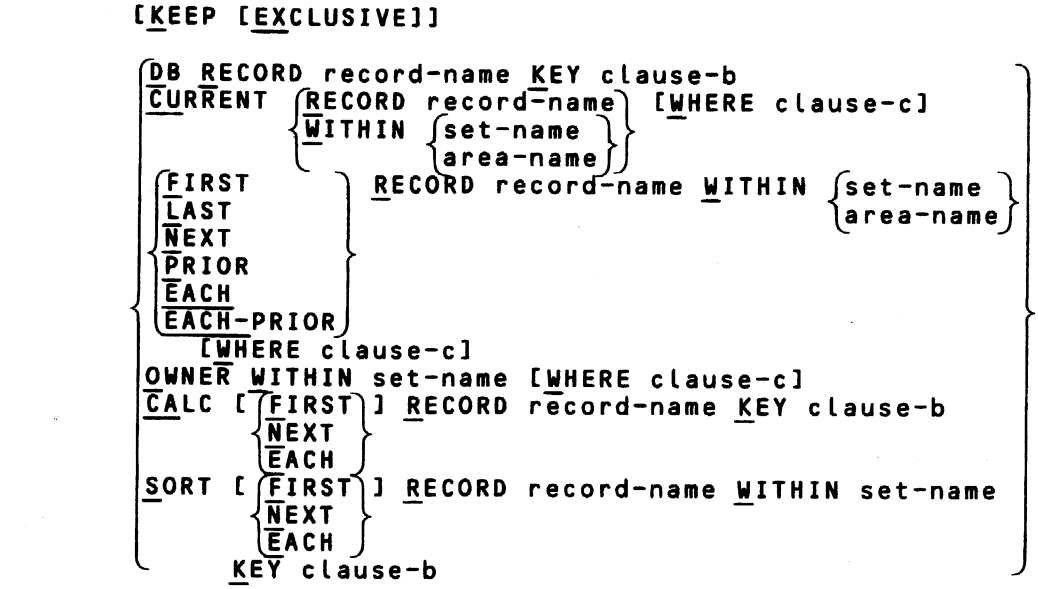
record-name is the name of a member that is an IDMS-RECORD

command is:

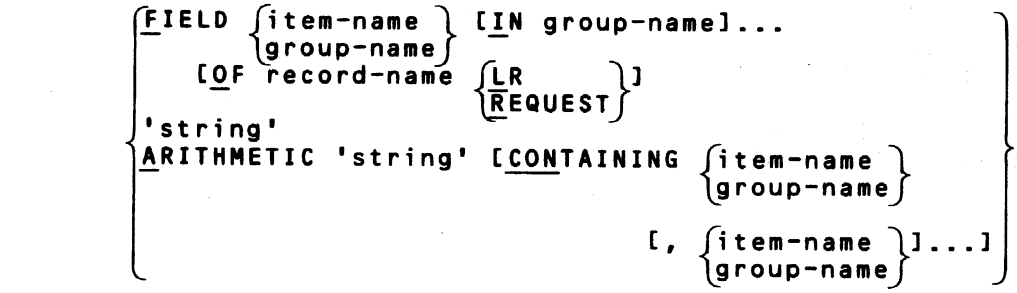
```
{{FIND    } clause-a                                                          }
{{OBTAIN  }                                                                   }
{STORE record-name                                                            }
{MODIFY record-name                                                           }
{CONNECT record-name TO set-name                                              }
{DISCONNECT record-name FROM set-name                                         }
{ERASE record-name [{PERMANENT}]                                              }
{                  {SELECTIVE }                                               }
{                  {ALL       }                                               }
{GET record-name                                                              }
{KEEP [EXCLUSIVE] CURRENT {RECORD record-name}                                }
{                         {WITHIN {set-name  }}                               }
{                                 {area-name }                                }
{COMPUTE {item-name } [IN group-name]...                                      }
{        {group-name}                                                         }
{   [OF record-name] EQ clause-d                                              }
{                                                                             }
{EVALUATE clause-c                                                            }
{[IF [NOT] SET set-name {EMPTY } ] ON integer                                 }
{                      {MEMBER}                                               }
{   {NEXT                      }                                              }
{   {ITERATE                   }                                              }
{   {NESTED path-group         }                                              }
{   {[CLEAR] RETURN ret-str    }                                              }
```

where

clause-a is:



clause-b is:



[AND clause-c]

clause-c is:

[NOT] comp-a [{AND / OR} [NOT] comp-a]...

where comp-a is:

clause-d {CONTAINS / MATCHES / EQ / NE / GT / LT / GE / LE} clause-d

clause-d is:

```
{FIELD {item-name } [IN group-name]...
       {group-name}
 [OF record-name [LR]
 'string'
 ARITHMETIC 'string' [CONTAINING {item-name }
                                 {group-name}
                                 [, {item-name }]...]
                                    {group-name}
}
```

set-name is the name of a member that is an IDMS-SET

area-name is the name of a member that is an IDMS-AREA

string is up to 16 alphanumeric characters

integer is an unsigned integer of from 1 to 18 digits, being the number of times item-name or group-name occurs in the array

path-group is the name of a member that is an IDMS-PATH-GROUP

ret-str is a string of 1 to 16 alphanumeric characters

common-clauses are as defined in the CONTROLMANAGER section of this publication.

IDMS-RECORD

```
IDMS-RECORD [IDENTITY record-id]

    [STORED {DIRECT                                          }]
            {VIA set-name [DISPLACED page-count]             }
            {{USING} KEY {item-name [version]}               }
            {{BY   }     {group-name          }               }
            {    [, {item-name [version]}]...                }
            {       {group-name          }                   }
            {     DUPLICATES {FIRST      }                   }
            {                {LAST       }                   }
            {                {DISALLOWED}                   }
            {VSAM [FILE file-name                            }
            {     {USING} KEY {item-name [version]}          }
            {     {BY   }     {group-name          }         }
            {      DUPLICATES {DISALLOWED}]                  }
            {                 {UNORDERED }                   }

    [VSAM-TYPE {FIXED   } LENGTH {SPANNED  }]
               {VARIABLE}        {UNSPANNED}

    [AREA area-name
      [{FROM page-1 TO page-2                                }]]
       {OFFSET {PERCENT i   } FOR {PERCENT k    }}
       {       {PAGES page-3}     {PAGES page-4 }}

    [MINIMUM-ROOT {CONTROL    }]
                  {root-length}
                  {RECORD     }

    [MINIMUM-FRAGMENT {fragment-length}]
                      {RECORD         }
```

```
[CALL process-name [KNOWN-AS procedure-name]

    {BEFORE}  [ {STORE      }]]...
    {AFTER  }   {CONNECT    }
    {ERROR  }   {MODIFY     }
                {DISCONNECT }
                {ERASE      }
                {FIND       }
                {GET        }
                {RETURN     }

[STORAGE string]

[OCCURRENCES p]

[[form] CONTAINS
    content [IF clause] [ELSE content [IF clause]]...

  [, content [IF clause] [ELSE content [IF clause]]...]...]

[common clauses]

{;}
{.}
```

where

record-id is an integer in the range 10 to 9999

set-name is the name of a member that is an IDMS-SET

page-count is an integer in the range 0 to 32767

item-name is the name of a member that is an ITEM

version is an unsigned integer in the range 1 to 15, being a number specifying which version of the item is relevant to this definition

group-name is the name of a member that is a GROUP

file-name is the name of a member that is a FILE

area-name is the name of a member that is an IDMS-AREA, that defines the area (of the IDMS database) within which this record resides

page-1 is an integer in the range 1 to 1073741822

page-2 is an integer in the range 2 to 1073741822

i is an integer in the range 0 to 99

k is an integer in the range 1 to 100

page-3 is an integer in the range 0 to 1073741822

page-4 is an integer in the range 1 to 1073741822

root-length is an unsigned integer, a multiple of 4, being the number of characters to be included in the initial portion of the record, if the record is variable length

fragment-length is an unsigned integer, a multiple of 4, being the minimum number of characters to be included in subsequent portions of the record, if the record is variable length

process-name is the name of a member that is a SYSTEM, PROGRAM or MODULE

procedure-name is a name not more than eight characters in length, that both conforms to the rules for member names and is a legal CSECT name or entry point for input into IBM OS or DOS assemblers

string is up to 16 alphanumeric characters

p is an integer in the range 0 to 2147483647

form is:

```
{ALIGNED      } {ENTERED-AS  }
{UNALIGNED    } {HELD-AS     }
{NOT-ALIGNED  } {REPORTED-AS }
                {DEFAULTED-AS}
```

content declares an item, subordinate group or an array, in the format:

```
{{item-name [version]} [{ALIGNED     }] [KNOWN-AS local-name]  }
{{group-name          }  {UNALIGNED   }                         }
{                        {NOT-ALIGNED}                          }
{{(integer)                  } {item-name [version]}             }
{{(item-name-a [version])    } {group-name         }             }
{  [{ALIGNED     } [KNOWN-AS local-name] [INDEXED-BY index-name }
{   {UNALIGNED   }                                               }
{   {NOT-ALIGNED}                                               }
```

where

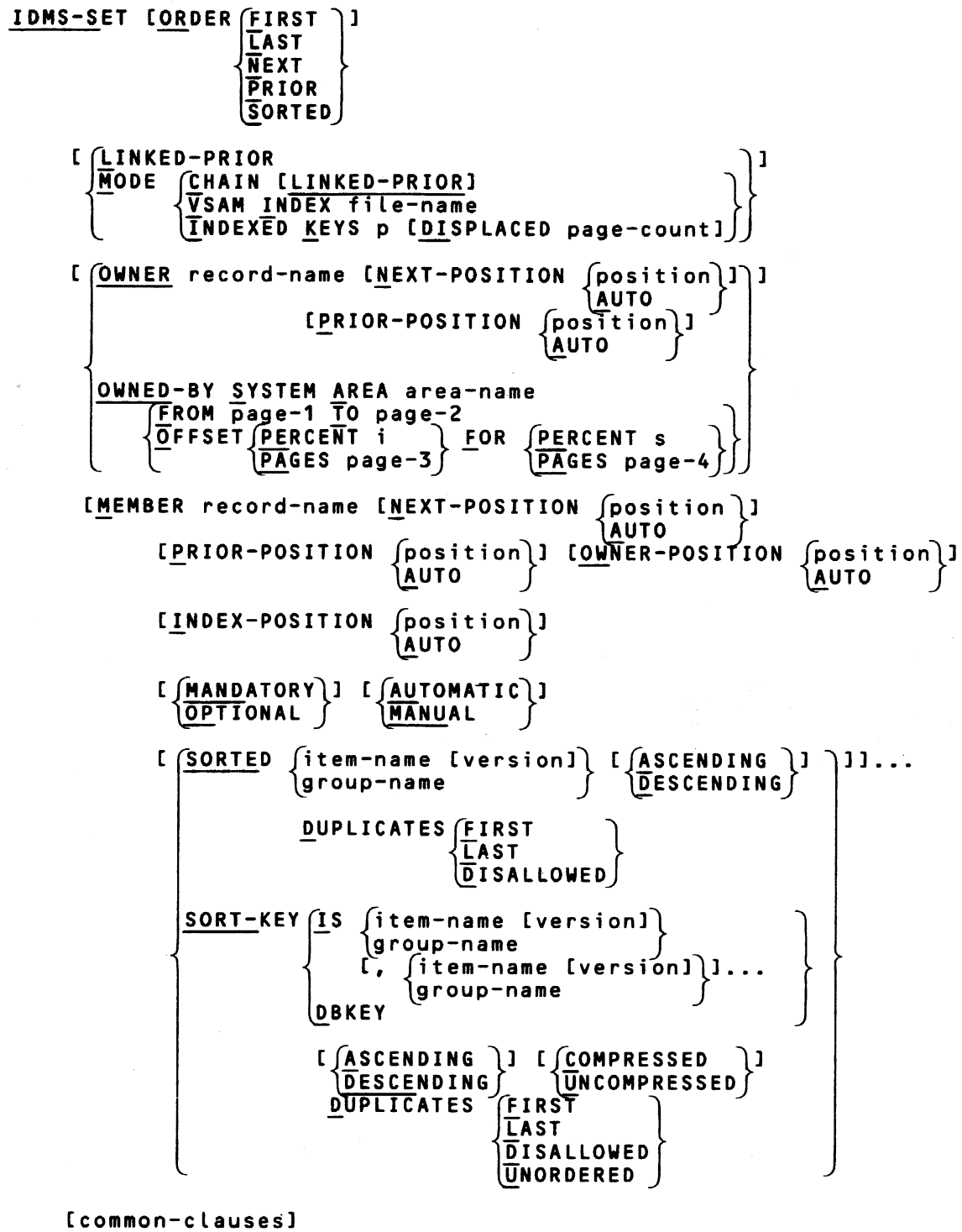
local-name is a name, conforming to the rules for member names, that can be used instead of the name or alias of the contained member, when record layouts or source language data descriptions are generated from this data definition by the DATAMANAGER Source Language Generation facility

integer is an unsigned integer of from 1 to 18 digits, being the number of times item-name or group-name occurs in the array

item-name-a is the name of a member that is an ITEM

index-name is a name, conforming to the rules for member names, that is to be used as the index name when COBOL data descriptions are generated by the DATAMANAGER Source Language Generation facility

common-clauses are as defined in the CONTROLMANAGER section of this publication.



where

file-name is the name of a FILE member

p is an integer in the range 3 to 8180

page-count is an integer in the range 0 to 32767

record-name is the name of a member that is an IDMS-RECORD

position is an integer in the range 1 to 8180

area-name is the name of a member that is an IDMS-AREA

page-1 is an integer in the range 1 to 1073741822

page-2 is an integer in the range 2 to 1073741822

i is an integer in the range 0 to 99

s is an integer in the range 1 to 100

page-3 is an integer in the range 0 to 1073741821

page-4 is an integer in the range 1 to 1073741821

item-name is the name of a member that is an ITEM

group-name is the name of a member that is a GROUP

version is an unsigned integer in the range 1 to 15

common-clauses are as defined in the CONTROLMANAGER section of this publication.

IDMS-SUBSCHEMA

```
IDMS-SUBSCHEMA ACCESSES database-name

    [AUTHORIZATION {ON }] [USAGE {DML  }]
                   {OFF}         {MIXED}
                                 {LR   }

    [STATISTICS TO subschema-name [OF database-name]
        [FOR program-name]]...

    [LR-CURRENCY {RESET  }]
                 {NORESET}

    {ALL-AREAS [OPTIONS subschema-area-options]                    }
    {AREA area-name [OPTIONS subschema-area-options]               }
    {    [AREA area-name [OPTIONS subschema-area-options]]...      }

    [RECORD record-name [KNOWN-AS local-name]
        [OPTIONS record-options] [PRIORITY {NULL}]
                                           {n   }
        [SELECTING {item-name } [KNOWN-AS local-name]
                   {group-name}

            [, {item-name } [KNOWN-AS local-name]]...]]...
               {group-name}

    [VIEW view-name [OPTIONS record-options]
        [PRIORITY {NULL}]]...
                  {n   }
```

```
{ALL-SETS [OPTIONS set-options]]...                    }
{SET set-name [OPTIONS set-options]                    }
{     [SET set-name [OPTIONS set-options]]...          }

[LOGICAL-RECORD lr-name]...

DMCL dmcl-name

     {AS subschema-name                                                    }
     {                                                                     }
     {I-O [BUFFER buffer-name PAGES page SIZE size                         }
     {     [CONTROL-INTERVAL c-i-size]                                     }
     {     [VSAM-TYPE {LSR} STRNO j {KEYLEN k}]]...                        }
     {                {NSR}         {BUFNI m }                           }
     {                                                                     }
     {     [JOURNAL-BUFFER buffer-name PAGE p SIZE s]...                   }
     {                                                                     }
     {     {ALL-AREAS [OPTIONS dmcl-area-options]                  }       }
     {     {AREA area-name [OPTIONS dmcl-area-options]             }       }
     {     {[AREA area-name [OPTIONS dmcl-area-options]]...        }       }
     {                                                                     }
     {     JOURNAL TAPE-FILE file-name {BLOCK-SIZE t-size }                }
     {                                 {BUFFER buffer-name}                }
     {                                                                     }
     {        [ASSIGN external-name] [DEVICE device]                       }
     {        [DISKS BLOCK-SIZE d-size BLOCK-COUNT count                   }
     {           FILE file-name [ASSIGN external-name]                     }
     {                 [DEVICE device]                                     }
     {           [FILE file-name [ASSIGN external-name]                    }
     {                  [DEVICE device]]...]]                              }

[common clauses]

{;}
{.}
```

where

database-name is the name of the database that the subschem accesses

subschema-name is the name of a member that is an IDMS-SUBSCHEMA

program-name is the name of a member that is a PROGRAM

subschema-area-options is:

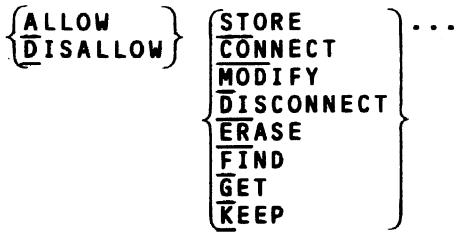
```
{ALLOW   } {[{PROTECTED}] {UPDATE   }}...
{DISALLOW} {[{EXCLUSIVE}] {RETRIEVAL}}
           {[{SHARED   }]            }

 [DEFAULT-USAGE {[{PROTECTED}] {UPDATE   }}]
                {[{EXCLUSIVE}] {RETRIEVAL}}
                {[{SHARED   }]            }
                {NULL                     }
```

area-name is the name of a member that is an IDMS-AREA

record-name is the name of a member that is an IDMS-RECORD

local-name is a name, conforming to the rules for member names, that can be used instead of the name or alias of the contained member, when record layouts or source language data descriptions are generated from this data definition by the DATAMANAGER Source Language Generation facility

record-options is:



n is an unsigned integer in the range 0 to 9999

item-name is the name of a member that is an ITEM

group-name is the name of a member that is a GROUP

view-name is the name of a member that is an IDMS-VIEW

set-options is:

set-name is the name of a member that is an IDMS-SET

lr-name is the name of a member that is a LOGICAL-RECORD

dmcl-name is 1 to 8 alphanumeric characters

buffer-name is 1 to 16 alphanumeric characters

page is an integer in the range 2 to 999999

size is an integer in the range 44 to 32768

c-i-size is an integer in the range 512 to 999999

j is an integer in the range 1 to 255

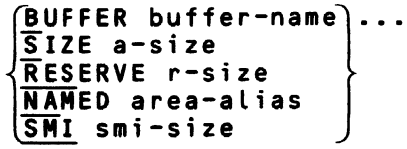
k is an integer in the range 1 to 255

m is an integer in the range 1 to 999999

p is an integer in the range 1 to 999999

s is an integer in the range 208 to 32764

dmcl-area-options is:



where

a-size is an integer in the range 44 to 32786

r-size is an integer in the range 44 to 32767

area-alias is a 1 to 16 alphanumeric character name

smi-size is an integer in the range 44 to 32768

file-name is the name of a member that is a FILE

t-size is an integer in the range 104 to 32764

external-name is the logical file name used in job control statements to indicate the external data set name (physical file name) of the file identified in the FILE clause

device is:

{VSAM / KSDS / ESDS / RRDS / PATH / device-a}

where device-a is any valid device-type

d-size is an integer in the range 104 to 32764

count is an integer in the range 3 to 999999

common-clauses are as defined in the CONTROLMANAGER section of this publication.

IDMS-VIEW

IDMS-VIEW

RECORD record-name [KNOWN-AS local-name]

[SELECTING {item-name / group-name} [KNOWN-AS local-name]

[, {item-name / group-name} [KNOWN-AS local-name]]...]

[common clauses]

{; / .}

where

record-name is a name of a member that is an IDMS-RECORD

local-name is a name, conforming to the rules for member names, that can be used instead of the name or alias of the record-name, group-name or item-name when IDMS/R source statements are generated from the data definition by the Source Language Generation facility

item-name is the name of a member that is an ITEM

group-name is the name of a member that is a GROUP

common-clauses are as defined in the CONTROLMANAGER section of this publication.

IDMS Interrogation

Interrogation via WHAT/WHICH

For interrogation of the IDMS/R Interface the relation clause of the WHAT/WHICH command becomes:

```
[{DIRECTLY  }]
 {INDIRECTLY}

({USES       } member-name [VIA usage]
 {CONSTITUES}

 {INPUTS      }
 {OUTPUTS     }
 {UPDATES     }
 {CONTAINS    }
 {CALLS       } member-name [form]
 {PASSES      }
 {INPUT-BY    }
 {OUTPUT-BY   }
 {UPDATED-BY  }
 {CONTAINED-BY}
 {CALLED-BY   }
 {PASSED-BY   }
```

where usage is any one of ACCESSES, AREAS, AS, BOUND, CALLS, COMPUTE, CONNECT, CONNECT-TO, CONTAINS, DATASETS, DISCONNECT, DISCONNECT- FROM, DMCL-AS, ERASE, EVALUATE, FIND, FIND-USING, FOR, GET, IF, IN, JOURNAL, KEEP, KEYS, LOGICAL-RECORD, MEMBER, MODIFY, NAME, OBTAINS, OF, OUTPUTS, OWNER, OWNER-NAME, PARAMETERS, PASSING, PROCESSES-IDMS, RECORD, SEE, SELECTING, SETS, SORTED, SORT-KEYS, STAND-ALONE, STATISTICS-FOR, STATISTICS-OF, STATISTICS-TO, STORED-VIA, UPDATES, USER-LABELS, USER-EXIT, VIEW, VSAM-FILE, WITHIN

NOTES