DATAMANAGER

5.0

Adabas Interface

Technical Documentation from msp

DATAMANAGER SYNTAX SUMMARY (Release 5.0) FOR ADABAS INTERFACE

This card contains the formats of ADABAS Interface commands and data definitions implemented in DATAMANAGER Release 5.0.
For the full specifications of any command or data definition statement, reference should be made to the DATAMANAGER ADABAS Interface manual together with current User Notices.

SYNTAX NOTATION

variable	shown in lower case	{clause-1 / clause-2}	choice of one from many
KEYWORD	shown in upper case with underscored truncation limit *	[clause]	optional clause
member-name	may be coded in quotes	...	optional repetition
element	syntax new in this Release shown in color		

* Truncation limits may be affected if the DATAMANAGER User Defined Syntax facility or the CONTROLMANAGER User Defined Commands facility is in use.

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ADABAS Data Definitions

DATABASE

```
ADABAS-DATABASE

[CONTAINS file-name[adabas-code][, file-name[adabas-code]]...]

    [DEVICE {xxxx [yyyy]}]
            {yyyy       }

    [COUPLE couple-clause [, couple-clause]...]

    [CIPHER cipher-clause [, cipher-clause]...]

    [common-clauses]

{;}
{.}

couple-clause is

    file-name {TO  } file-name [, file-name]... BY item-name
              {WITH}

cipher-clause is:

    file-name [, file-name]... {BY  } {code     }
                               {WITH} {item-name}
```

FILE

```
FILE ADABAS [CONTAINS content [, content]...]

    [DESCRIPTORS {item-name } [UNIQUE]
                 {group-name}

                 [,{item-name } [UNIQUE]]...]
                   {group-name}

    [SUB-DESCRIPTORS adabas-name IS {item-name } BYTES a [TO b]
                                    {group-name}

        [, adabas-name IS {item-name } BYTES a [TO b]]...]
                          {group-name}

[SUPER-DESCRIPTORS adabas-name IS {item-name }[BYTES a [TO b]]
                                  {group-name}

            [WITH {item-name }[BYTES a [TO b]]]...
                  {group-name}

        [, adabas-name IS {item-name } [BYTES a [TO b]]
                          {group-name}

            [WITH {item-name } [BYTES a [TO b]]]...:]...]
                  {group-name}

    [FIELD-NAMES adabas-name IS {item-name }
                                {group-name}

        [, adabas-name IS {item-name }...]...
                          {group-name}

    [PHONETIC-NAMES adabas-name IS item-name

        [, adabas-name IS item-name]]...]
```

```
    [common-clauses]

{;}
{.}

content is:

    {group-name                                          }
    {item-name [version]                                 }
    {(integer              ) (group-name          )      }
    {(item-name [version]  ) (item-name [version]  )      }

    [KNOWN-AS local-name] [INDEXED-BY index-name]
```

ADABAS Processes Definition

PROCESSES

```
{SYSTEM  } PROCESSES ADABAS ACCESS access-name
{PROGRAM }
{MODULE  }

    {FILE file-name {GIVING} details [,details]...}
    {               {USING }                       }
    {AS access-name-2 IN process-name              }

    [ACCESS access-name

        {FILE file-name {GIVING} details [, details]...}]...
        {               {USING }                        }
        {AS access-name-2 IN process-name               }

    [CONTAINS member-name [, member-name]...]

    [INPUTS data-name [, data-name]...]

    [OUTPUTS data-name [, data-name]...]

    [UPDATES data-name [, data-name]...]

    [{CALLS process-name [, process-name]...}]
     {calls-clause-2...                      }

    [{PARAMETERS data-name [, data-name]...      }]
     {entry-point-clause [entry-point-clause]...}

    [LANGUAGE 'string'] [AUTHOR 'text'] [INSTALLATION 'text']

    [DATE-WRITTEN date] [SOURCE-COMPUTER 'text']

    [OBJECT-COMPUTER 'text'] [SPECIAL-NAMES 'text']

    [I-O-CONTROL 'text'] [ASSIGNMENT 'text']

    [EDIT-INPUT 'text'] [EDIT-OUTPUT 'text']

    [EDIT-UPDATE 'text']

    [common-clauses]

{;}
{.}
```

where

details are:

```
    {item-name [{{ENTERED-AS } [version]}] [edit-clause]}
    {           {{HELD-AS   }            }               }
    {           {{REPORTED-AS}            }               }
    {           {{DEFAULTED-AS}           }               }
    {           {{version    }            }               }
    {                                                    }
    {    [counts-clause] [occurences-clause]             }
    {                                                    }
    {group-name [{ENTERED-AS  }] [edit-clause]           }
    {            {HELD-AS     }                          }
    {            {REPORTED-AS }                          }
    {            {DEFAULTED-AS}                          }
    {                                                    }
    {    [{counts-clause     }]                          }
    {     {occurrences-clause}                           }
    {                                                    }
    {item-name {THROUGH} item-name-b                     }
    {          {THRU   }                                 }
    {                                                    }
    {[(nn)] 'literal'                                    }

    [KNOWN-AS local-name]
```

where

edit-clause is:

```
{EDIT-NAME item-name-a [version]}
{EDIT-CODE 'En'                  }
```

counts-clause is:

```
{COUNTS [AS item-name-c [version]]                  }
{OCCURRENCES {i [, i]...          }                 }
{            {i {THROUGH} j       }                 }
{            {  {THRU    }         }                 }
```

occurrences-clause is:

```
IN group-name-a OCCURRENCES {i [, i]...          }
                            {i {THROUGH} j       }
                            {  {THRU    }         }
```

member-name identifies a member at the same or a lower level in the member type hierarchy

process-name identifies a process member at the same or a lower level in the member type hierarchy

data-name identifies a data member

calls-clause-2 is:

```
CALLS process-name [AT 'string']
    [PASSING data-name [, data-name]...]
```

entry-point clause is:

```
ENTRY-POINT 'string' [PARAMETERS data-name [, data-name]...]
```

COMMON CLAUSES

> Common clauses apply to all MANAGER Product member types. Thus, for DATAMANAGER they apply to the basic set (SYSTEM through ITEM); to COMMAND-STREAM and OBSOLETE-DEFINITION; to database-specific sets (ADABAS, DL/I, IMS, IDMS, Siemens UDS, SYSTEM 2000/80, TOTAL); to the MARK IV set; and to User Defined sets (EDPS, SAS, SDS, user). Keyword truncation limits depend on the other keywords available in the data definition in which they appear; the limits shown below are unambiguous in any DATAMANAGER basic and ADABAS Interface member definition. Further truncation may be acceptable if the truncated form remains unambiguous for the particular member type.

common-clauses is any of the following clauses:

```
ACCESS-AUTHORITY 'name' [ {READ-ONLY        } ]
                          {UPDATE           }
                          {SECURITY-CONTROL }

     [, 'name' [ {READ-ONLY        } ]]...
                 {UPDATE           }
                 {SECURITY-CONTROL }

ADMINISTRATIVE-DATA 'text'

ALIAS [alias-type] 'alias' [, [alias-type] 'alias']...

CATALOGUE 'classification' [, 'classification']...

COMMENT 'text'

DESCRIPTION 'text'

EFFECTIVE-DATE date

FREQUENCY {frequency                                                  }
          {{ACCESS } frequency [{ACCESS } frequency]...               }
          {{RUN    }             {RUN    }                            }
          {{UPDATE }             {UPDATE }                            }
          {{BACK-UP}             {BACK-UP}                            }

where frequency is:

     {{MONTHLY} [{number  }]}
     {{WEEKLY }  {'string'}  }
     {{DAILY  }              }
     {{HOURLY }              }
     {number                 }
     {'string'               }

NOTE 'text'

OBSOLETE-DATE date

QUERY 'text'

SECURITY-CLASSIFICATION 'string' [FROM date]

     [, 'string' [FROM date]]...

SEE member-name [FOR 'string'] [, member-name [FOR 'string']]...
```

ADABAS Interrogation

Database Member Types

database is:

```
{ADABAS-DATABASES}
{ADABAS-FILES    }
```

Interrogation via WHAT/WHICH

For the ADABAS Interface the relation clause of the WHAT and WHICH commands becomes:

```
[DIRECTLY]

{{USES        } member-name [form] [VIA {INPUTS                }]}
{{CONSTITUTES}                         {OUTPUTS                 }
                                       {UPDATES                 }
                                       {CONTAINS                }
                                       {CALLS                   }
                                       {PASSING                 }
                                       {PARAMETERS              }
                                       {SORTKEYS                }
                                       {USER-LABELS             }
                                       {BOUND                   }
                                       {KEYS                    }
                                       {USER-EXIT               }
                                       {NAME                    }
                                       {IF                      }
                                       {SEE                     }
                                       {ACCESSES                }
                                       {CIPHER                  }
                                       {COUPLE                  }
                                       {COUNTS-AS               }
                                       {DESCRIPTORS             }
                                       {EDIT-NAME               }
                                       {FIELD-NAMES             }
                                       {GIVING                  }
                                       {PHONETIC-NAMES          }
                                       {SUB-DESCRIPTORS         }
                                       {SUPER-DESCRIPTORS       }
                                       {USING                   }
 {INPUTS        } member-name [form]
 {OUTPUTS       }
 {UPDATES       }
 {CONTAINS      }
 {CALLS         }
 {PASSES        }
 {INPUT-BY      }
 {OUTPUT-BY     }
 {UPDATED-BY    }
 {CONTAINED-BY  }
 {CALLED-BY     }
 {PASSED-BY     }

[DIRECTLY]
```

PRODUCE ADABAS

```
PRODUCE

    {{ADABAS LOADER-DEFINITIONS}
    {{RECORD-LAYOUTS            }

            FROM file-name [AS library-name]
              [, file-name [AS library-name]]...

    [RECORD-LAYOUTS {FOR} ] ADABAS {RECORD-BUFFERS}]
                    {AND}          {FORMAT-BUFFERS}
                                   {BUFFERS       }
            [IN language]

            FROM {process-name [AS library-name]
                    [, process-name [AS library-name]]...
                 {access-name [AS library-name]
                    [, access-name [AS library-name]]...
                 {USED-IN process-name                   }}

    [{ONTO file-name [{PARTIONTIONED                }]}]
     {NOGENERATION     {SEQUENTIAL ['control-card']}}
     {NO-GENERATION                                 }

    [{PRINT   }]
     {NOPRINT }
     {NO-PRINT}

    [{WITH-ALIAS} [{number    }]]
     {ALIAS     }  {alias-type}

    [GIVING output-form-1 [, output-form-1]...]

    [OMITTING output-form-2 [, output-form-2]...]

    [{USE  }  {{ENTERED-AS } [VERSION version]}]
     {USING}  {{HELD-AS   }                   }
              {{REPORTED-AS}                   }
              {{DEFAULTED-AS                   }}

    [{REPLACE  } {ALL      } WITH 'string' [WHEN condition]]...
     {REPLACING} {[m] (p)  }
                 {'string' }

    [DROPPING {ALL      } WHEN condition]]...
              {[m] (p)  }
              {'string' }

  [INSERTING 'string' {BEFORE} {ALL      } [WHEN condition]]...
                      {AFTER } {n        }
                               {'string' }

  {;}
  {.}
```

where

language is:

```
    {COBOL    }
    {PL/I     }
    {PL/1     }
    {PLI      }
    {PL1      }
    {BAL      }
    {ASSEMBLER}
    {ALC      }
```

output-form-1 is:

```
    {[n] NOTES              }
    {[n] DESCRIPTIONS       }
    {KNOWN-AS               }
    {ACCESS-NAME-PREFIX     }
    {UPDATES                }
```

output-form-2 is:

```
{NOTES                  }
{DESCRIPTIONS           }
{ALIAS                  }
{KNOWN-AS               }
{ACCESS-NAME-PREFIX     }
{UPDATES                }
```

condition is:

```
{ALL      } {EQ} 'string'
{ANY      } {=}
{[m] [p]  } {NE}
```