

NAVAL HEALTH RESEARCH CENTER

TECHNICAL MANUAL FOR THE NAVY COMPUTER ASSISTED MEDICAL DIAGNOSIS KNOWLEDGE BASE EDITOR (NCAMD-KBE)

Version 1.0.

H. L. Ly

D. M. Pearsall

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NAVAL HEALTH RESEARCH CENTER
P. O. BOX 85122
SAN DIEGO, CALIFORNIA 92186 - 5122

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
BETHESDA, MARYLAND

Technical Manual for the
Navy Computer Assisted Medical Diagnosis Knowledge
Base Editor (NCAMD-KBE), Version 1.0.

Prepared by:

Hoa L. Ly
Dianna M. Pearsall

Naval Health Research Center
Medical Information Systems and
Operations Research Department
P.O. Box 85122
San Diego, CA 92186-5122

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SUMMARY

This technical manual contains the information on the program source code, data elements, and the database structure needed to maintain the Navy Computer Assisted Medical Diagnosis Knowledge Base Editor (NCAMD-KBE). This documentation was created using the FOXDOC Version 2.5a program.

TABLE OF CONTENTS

Introduction	1
Section I. System Summary	1
Section II. Menu File Summary	2
Section III. Screen Summary	2
A. BACKUP.SCX	2
B. KBDEL.SCX	3
C. KB.SCX	4
D. QUAL.SCX	5
E. GOAL.SCX	6
F. DISPLAY.SCX	7
G. DISEASE.SCX	8
H. ACTION.SCX	9
I. ACTELSE.SCX	9
J. CLAUSE.SCX	11
K. RULE.SCX	12
M. OBJECT.SCX	14
N. ENUM.SCX	14
O. RESTORE.SCX	15
P. DD.SCX	16
Q. PLAN.SCX	17
R. DICT.SCX	18
S. KBEDIT.SCX	19
T. OBLIST.SCX	20
U. DDEDIT.SCX	21
V. DDENUM.SCX	22
W. KBLOAD.SCX	23
Section IV. Data Dictionary	24
A. Knowledge Base Structure	24
B. Database Structure Summary	25
C. Database Field Summary	31
Section V. Tree Diagram	33
Section VI. Procedure and Function Summary	40
Section VII. Program Source Code	54

Introduction

This document is the technical guide for the Knowledge Base Editor within the Navy Computer Assisted Medical Diagnosis (NCAMD) System. FoxDoc Version 2.5a was used to generate the program code in Section VII. This technical manual describes the knowledge base data structures and reviews the diagnostic algorithm and data flows. It contains seven sections:

1. System Summary
2. Menu Summary
3. Screen Summary
4. Data Dictionary
5. Tree Diagram
6. Procedure Summary
7. Source Code Program Listing

Section I. System Summary. See the tree diagram in Section V for programs, procedures, functions, and file formats.

This system has:

13520 lines of code
1 program file
32 procedure files
178 procedures and functions
16 table/dbfs
17 index files
1 menu file
23 screen files
2 other files
612 cross-referenced tokens

Section II. Menu File Summary. The system has one menu: KBMENU.MNX.

MENU OPTIONS	MENU OPTION IDENTIFIERS
System Help F1 ----- Backup Restore Knowledge Base Knowledge Base Area Question - Data Dictionary Exit system	System_MST_HELP KNOWLEDGEB

Section III. Screen Summary. The system has twenty three (23) screen files: BACKUP, KB, KBDEL, QUAL, GOAL, DISPLAY, DISEASE, ACTION, ACTELSE, CLAUSE, RULE, TERM, OBJECT, ENUM, RESTORE, DD, PLAN, DICT, KBEDIT, OBLIST, DDEDIT, DDENUM, and KBLOAD.

A. BACKUP.SCX

Last updated: 10/03/94 at 15:01

```

0  2: message.....
1
2
3  5: mfile..... To drive:.. 1: mdrive.....
4  .....
5  .....
6  ..... Directory:  3: mpath.....
7  .....
8  .....
9  .....
10 .....
11 .....
12 .....
13 .....
14 Backup file name:..6: mfname.....
  
```

Window name: W_backup
 Coordinates: FROM 0,0 TO 0,60
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mdrive	Popup	"@^ "
2: message	Field	
3: mpath	Popup	"@^ "
4: maction	Push button	"@*HT \!\<Backup;\<Cancel"
5: mfile	List	"@&N"
6: mfname	Field	
7: mdrive	Popup	"@^ "
8: message	Field	
9: mpath	Popup	"@^ "
10: maction	Push button	"@*VT \!\<Backup;\<Cancel"
11: mfile	List	"@&N"
12: mfname	Field	

B. KBDEL.SCX

Last updated: 10/03/94 at 15:01

```

                                Knowledge Base Delete
0
1 Delete: 2: name.....
2
3
4          < OK > <Cancel>

```

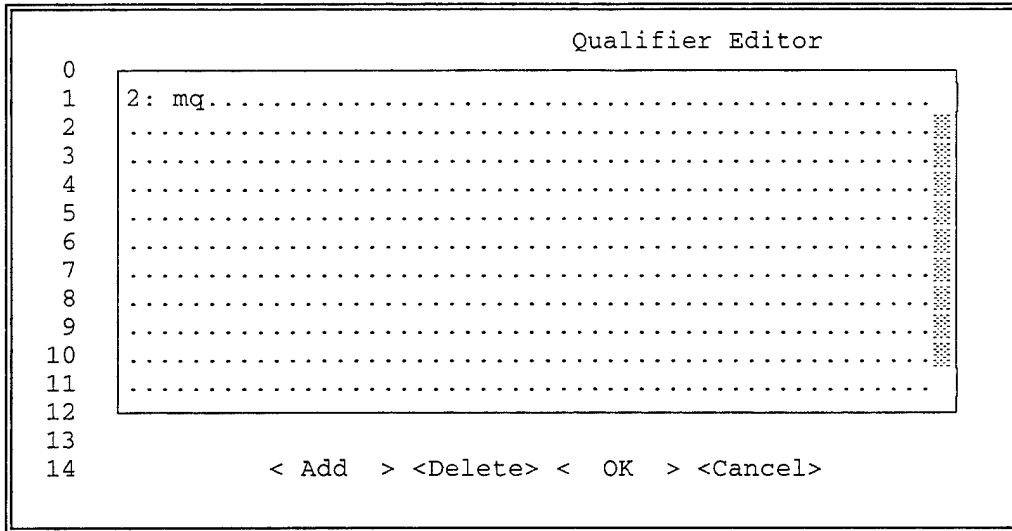
Name	Type	Picture
1: mbutton	Push button	"@*HT OK;Cancel"
2: area.name	Field	
3: mbutton	Push button	"@*HT OK;Cancel"
4: area.name	Field	

```

0
1 <Knowledge Base> 5: name.....
2                                     < Next >
3   Display thresholds      Rules    6: r
4   Consider  2: thr        [ ] DIAGNOSIS
5   Probable  3: pro        Inference 8: mpop2..
6   Likely    4: lik        Confidence 7: mpop...
7
8
9
10
11
12                                     <Conclusion >
13
14   < Add > < Edit > < Delete > < OK > < Cancel >
    
```

Window name: W_kb
 Coordinates: FROM 0,0 TO 0,74
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN
2: mbbuttons	Push button	"@*VN
3: m.areaname	Field	
4: m.threshold	Field	
5: m.probable	Field	
6: m.likely	Field	
7: m.rules	Field	
8: m.isdiag	Check box	"@*C DIAGNOSIS"
9: m.mpop	Popup	"@^ BAYES;ADDITIVE"
10: m.mpop2	Popup	"@^ FORWARD;BACKWARD"
11: mbuttons	Push button	"@*HT
12: m.threshold	Field	
13: m.probable	Field	
14: m.likely	Field	
15: m.name	Field	
16: m.rules	Field	
17: m.mpop	Popup	"@^ BAYES;ADDITIVE"
18: m.mpop2	Popup	"@^ FORWARD;BACKWARD"
19: m.isdiag	Check box	"@*C DIAGNOSIS"
20: minvbutton	Push button	"@*HN \<Knowledge Base"
21: mbbuttons	Push button	"@*VN

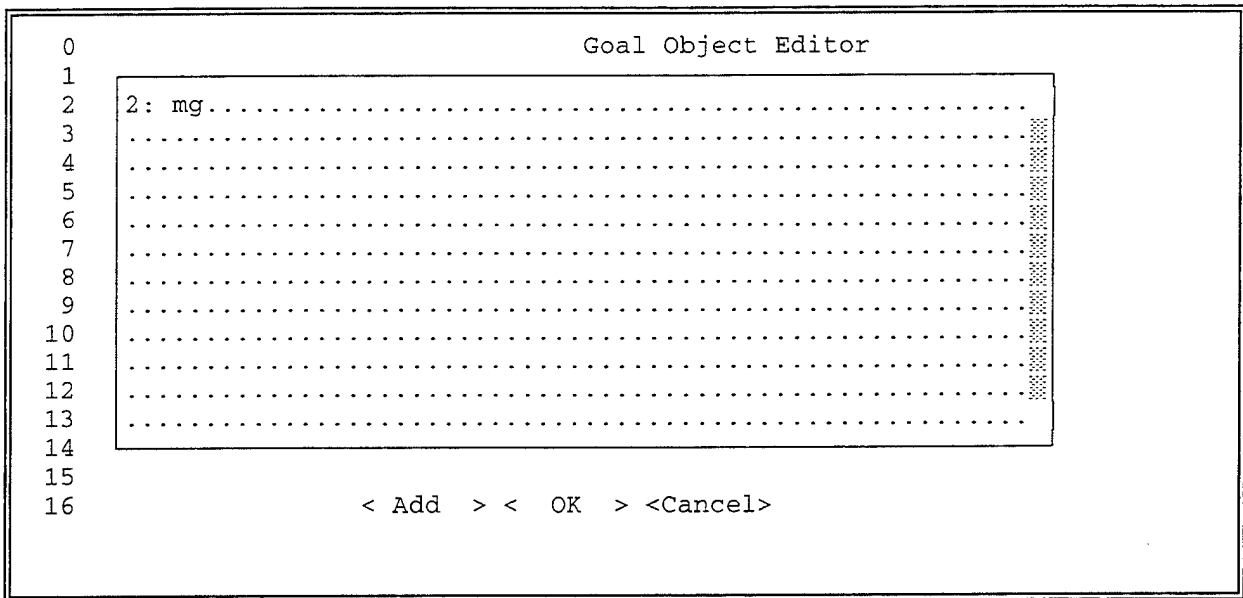


Window name: W_qe

Coordinates: FROM 0,0 TO 12,57

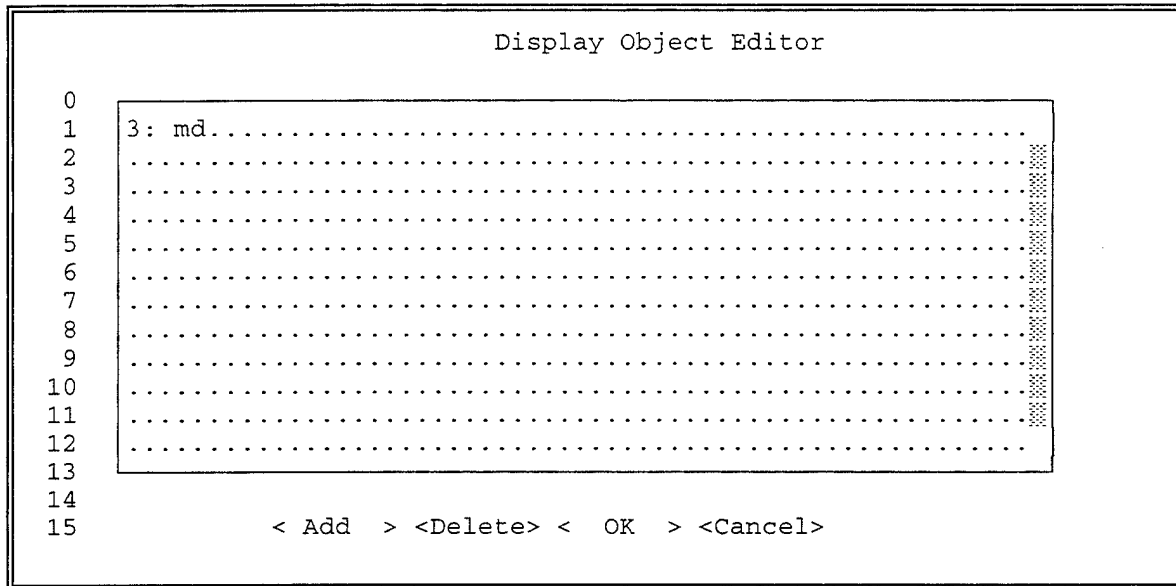
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT \<Edit;\<Quit"
2: mq	List	"@&N"
3: mbuttons	Push button	"@*HN"
4: mq	List	"@&N"



Window name: W_goal
 Coordinates: FROM 0,0 TO 13,63
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Edit;\<Quit"
2: mg	List	"@&N"
3: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
4: mg	List	"@&N"



Window name: W_displ

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT \<Edit;\<Quit"
2: md	List	"@&N"
3: mbuttons	Push button	"@*HT OK;Cancel"
4: mbutton	Push button	"@*HN Add;Delete"
5: md	List	"@&N"

Disease Object Editor

```

0 Id 5: id      Name 1: name.....
1 Description
2
3 2: descript.....
4 .....
5 .....
6 .....
7 .....
8 .....
9 .....
10
11 Treatment
12
13 3:treatment.....
14 .....
15 .....
16 .....
17 .....
18 .....
19 .....
20
21
    < OK > <Cancel>
    
```

Window name: W_disease
 Coordinates: FROM 0,0 TO 0,77
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	"@!"
3: m.descript	Field	
4: m.treatment	Field	
5: mbuttons	Push button	"@*HT \<OK;\<Cancel"
6: disease.name	Field	"@!"
7: disease.descript	Field	
8: disease.treatment	Field	
9: mbuttons	Push button	"@*HN \<OK;\<Cancel"
10: disease.id	Field	

H. ACTION.SCX

Last updated: 10/03/94 at 15:01

Action Editor

0		
1		< Edit >
2	4: ma.....	
3	.....	< Add >
4	.....
5	.....	<Delete>
6	.....
7	.....	< OK >
8	.....
9	.....	<Cancel>
10		

Window name: W_act

Coordinates: FROM 0,0 TO 9,75

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VN \<Edit;\<Quit"
2: ma	List	"@&N"
3: mbuttons	Push button	"@*VT \<Delete;\<OK>"
4: mebutton	Push button	"@*VN \<Edit"
5: minsbutton	Push button	"@*VN \<Add"
6: ma	List	"@&N"

I. ACTELSE.SCX

Last updated: 10/03/94 at 15:01

Action (Else) Editor

0		
1		< Edit >
2	4: me.....	
3	.....	< Add >
4	.....
5	.....	<Delete>
6	.....
7	.....	< OK >
8	.....
9	.....	<Cancel>
10		

Window name: W_act
Coordinates: FROM 0,0 TO 9,75
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VN \<Edit;\<Quit"
2: me	List	"@&N"
3: mbuttons	Push button	"@*VT \<Delete;\<OK>"
4: mebutton	Push button	"@*VN \<Edit"
5: minsbutton	Push button	"@*VN \<Add"
6: me	List	"@&N"

Clause Editor

```

0
1 Type      Qualifier      < OK >
2
3
4 <Object> 2: mobj.....
5
6
7 Operator  <
8
9 <Value>
10
11 1: val.....
12 .....
13 .....
14 .....
15 .....
16 .....
17 .....
18
    
```

Window name: W_clause

Coordinates: FROM 0,0 TO 0,67

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VT \<OK;\<Cancel"
2: mtype	Popup	"@^ Qualifier;Goal"
3: mobj	Field	
4: m.op	Popup	"@^ <;<=;==;>=;>;!|=;="
5: m.val	Field	
6: m.val	Field	
7: mobj	Field	
8: m.op	Popup	"@^ <;<=;==;>=;>;!|=;="
9: mtype	Popup	"@^ Qualifier;Goal"
10: mbuttons	Push button	"@*VT \<OK;\<Cancel"

K. RULE.SCX

Last updated: 10/03/94 at 15:01

Rule Object Editor

```

0
1 Rule 1: ru      Salience 2: s
2
3 Explanation
4
5 5: explain.....
6 .....
7 .....
8 .....
9 .....
10
11 Note
12
13 6: note.....
14 .....
15 .....
16 .....
17 .....
18
19          < Add > <Delete > < Ok > <Cancel >

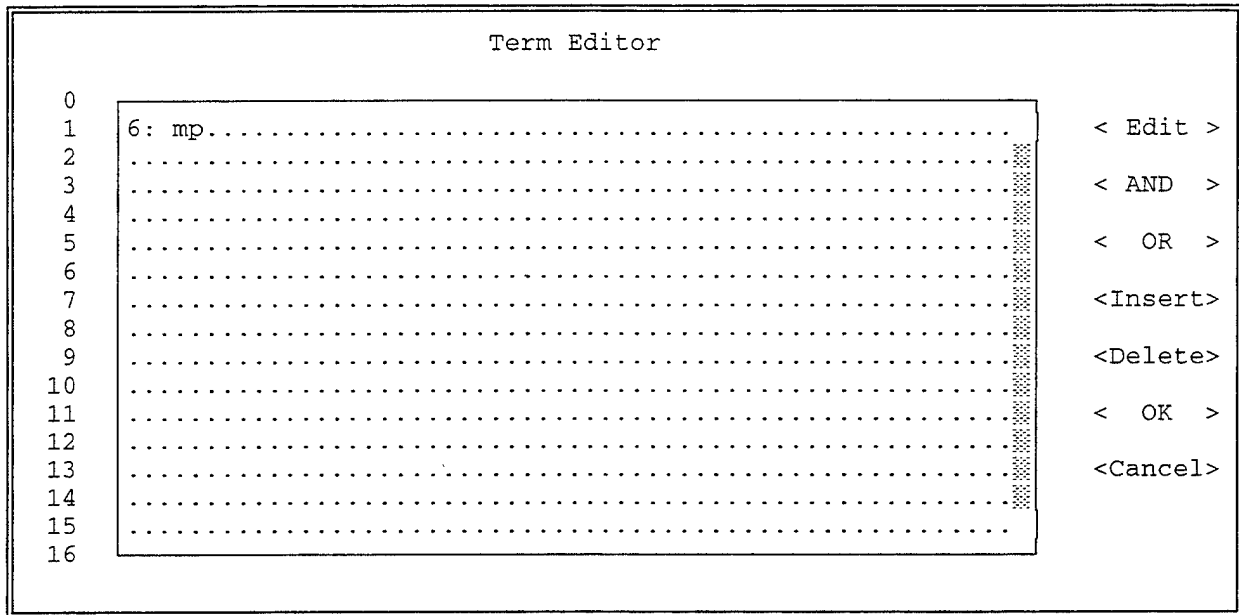
```

Window name: W_rule Window name: W_rule
Coordinates: FROM 0,0 TO 5,75
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.rule	Field	
2: m.salience	Field	
3: m.buttons	Push button	"@*HT \<OK ;\<Cancel"
4: m.explain	Field	
5: m.note	Field	
6: m.rule	Field	
7: m.salience	Field	
8: m.button	Push button	"@*VN \<Add"
9: m.buttons	Push button	"@*HT
10: m.explain	Field	
11: m.note	Field	

L. TERM.SCX

Last updated: 10/03/94 at 15:01



Window name: W_term
 Coordinates: FROM 0,0 TO 16,75
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mp	List	"@&N"
2: mbuttons	Push button	"@*VN \<Edit;\<Quit"
3: mbuttons	Push button	"@*VT \<Del"
4: mbutton	Push button	"@*VN \<AND"
5: morbutton	Push button	"@*VN \<OR"
6: mebutton	Push button	"@*VN \<Edit"
7: minsbutton	Push button	"@*VN \<Insert"
8: mp	List	"@&N"

M. OBJECT.SCX

Last updated: 10/03/94 at 15:01

```

                                Add New Object

0
1
2 Type:  (■) Subject      ( ) Disease
3
4 <Object> 2: name.....
5
6 ID# :  3: id
7
8                < Ok > <Cancel>

```

Window name: Object

Coordinates: FROM 0,0 TO 0,53

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.object	Radio button	"@*RHN Subject;Disease"
2: m.name	Field	
3: m.id	Field	
4: m.button	Push button	"@*HT \<OK;\<Cancel"
5: m.obj	Push button	"@*HN Object"
6: m.object	Radio button	"@*RHN Subject;Disease"
7: m.name	Field	
8: m.id	Field	
9: m.button	Push button	"@*HT \<OK;\<Cancel"
10: m.obj	Push button	"@*HN Object"

N. ENUM.SCX

Last updated: 10/03/94 at 15:01

```

                                Enumerated Type Editor

0 Mutex 3
1 Enum  4: enumerate.....
2 Ord   2:
3
                                < Add > < OK > <Cancel>

```

Window name: W_genum

Coordinates: FROM 0,0 TO 0,70

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT OK;Cancel"
2: enum.ord	Field	
3: enum.mutex	Field	
4: enum.enumerate	Field	"@!"
5: mbutton	Push button	"@*VN Add"
6: mbuttons	Push button	"@*HT OK;Cancel"
7: enum.ord	Field	
8: enum.mutex	Field	
9: enum.enumerate	Field	"@!"
10: mbutton	Push button	"@*VN Add"

O. RESTORE.SCX

Last updated: 10/03/94 at 15:01

```

0 2: message.....
1
2
3 5: mfile..... From drive: 1: mdrive.....
4 .....
5 .....
6 ..... Directory: 3: mpath.....
7 .....
8 .....
9 .....
10 .....
11 .....
12 .....
13 .....
14 Restore file name:.6: mfname.....

```

Window name: W_restore

Coordinates: FROM 0,0 TO 0,60

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mdrive	Popup	"@^ "
2: message	Field	
3: mpath	Popup	"@^ "
4: maction	Push button	"@*HT \!\<Restore;\<Cancel"
5: mfile	List	"@&N"
6: mfname	Field	
7: mdrive	Popup	"@^ "
8: message	Field	
9: mpath	Popup	"@^ "
10: maction	Push button	"@*VT \!\<Restore;\<Cancel"

```

11: mfile          List          "@&N"
12: mfname         Field

```

P. DD.SCX

Last updated: 10/03/94 at 15:01

Question - Data Dictionary

0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	.....
15	
16	

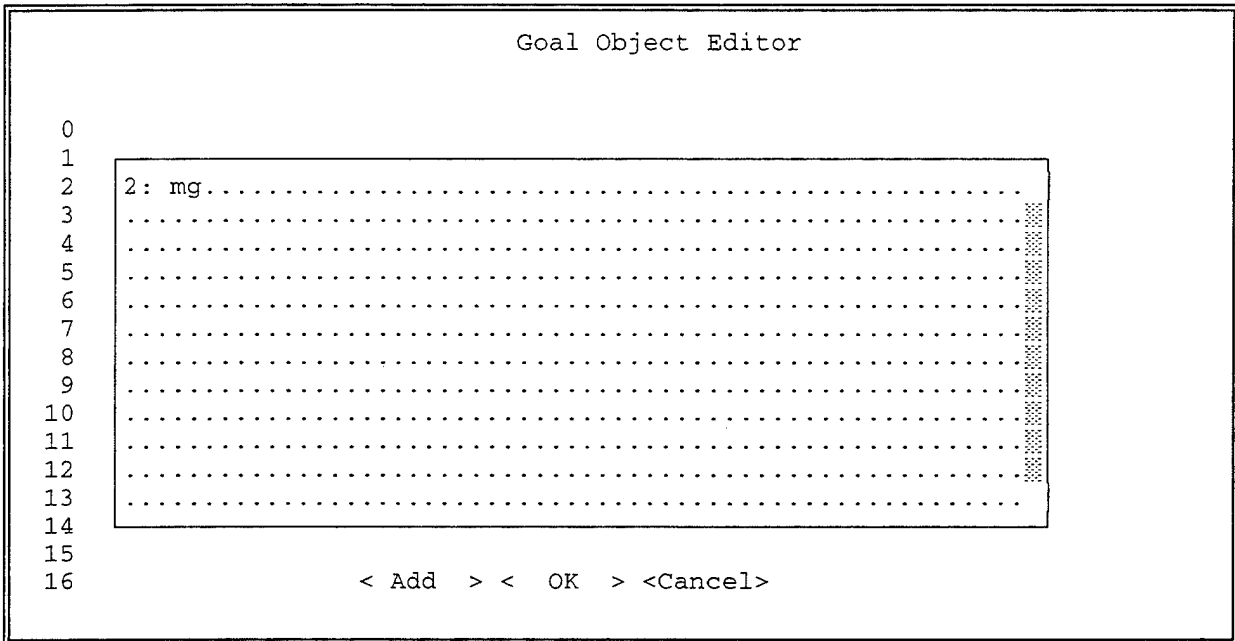
< Edit > < Add > < Delete > < Quit >

```

Window name: W_
Coordinates: FROM 0,0 TO 0,60
Window options: FLOAT CLOSE MINIMIZE SHADOW

```

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Edit;\<Add;
2: mq	List	"@&N"



Window name: W_goal
 Coordinates: FROM 0,0 TO 13,63
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
2: mg	List	"@&N"
3: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
4: mg	List	"@&N"

Dictionary Editor

```

0 Id 1:...      Name 2:name.....      Type  
1
2 Question Askbale:  4:as
3
4 
5 .....
6 .....
7
8 Enum
9
10 
11 .....
12 .....
13 .....
14 .....
15 .....
16 .....
17 .....
18
19 val: width  7:width.....      Decimals  8:dec..
20 Range: Hi   9: Hi.....      Lo 10:lo..  Units 11: units
21
22

```

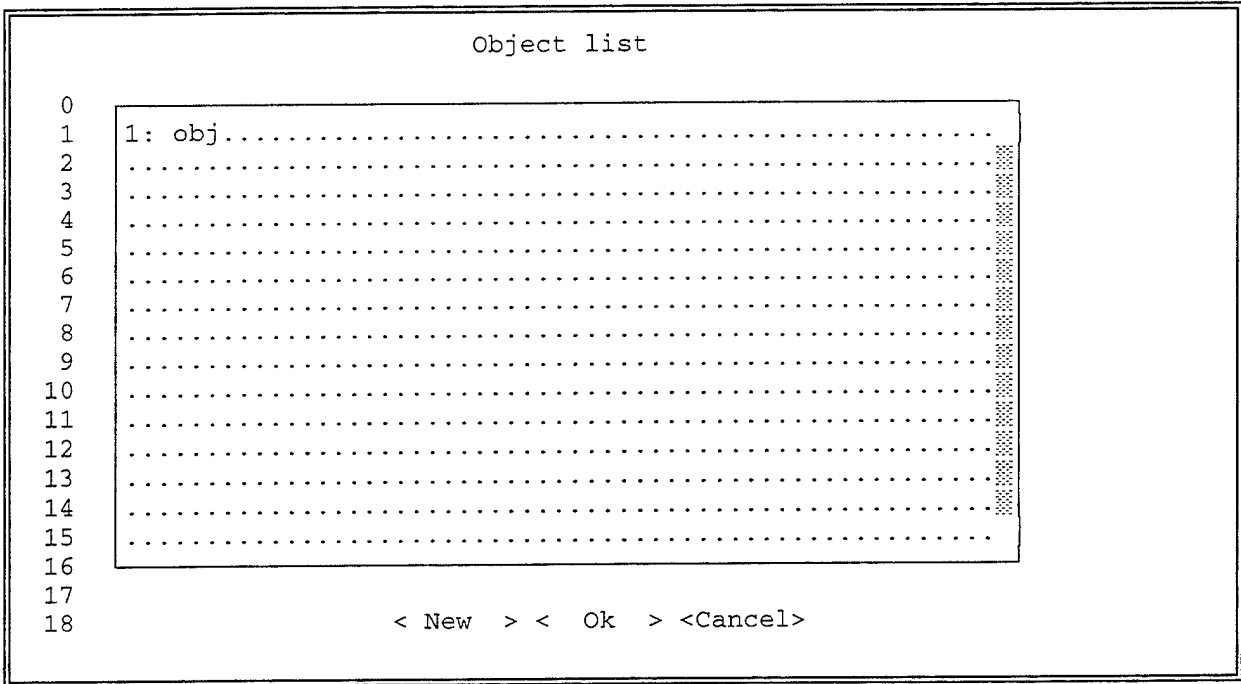
< OK > < CANCEL >

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	
3: m.datatype	Popup	"@^ N;E;M;L"
4: dict.askable	Field	
5: m.question	Field	
6: mp	List	"@&N"
7: m.width	Field	
8: m.dec	Field	
9: m.hi	Field	
10: m.lo	Field	
11: m.units	Field	
12: mbuttons	Push button	"@*HT OK;Cancel"

```

Knowledge Base Rule Editor
0 Knowledge Base: 1:areaname..... < Next >
1 Rule: 2:Rule.....
2 < IF: > < Prev >
3
4 4: mp..... < Browse >
5 .....
6 ..... < Edit >
7
8 < THEN: > < eXit >
9
10 6: ma.....
11 .....
12 .....
13
14 < ELSE: >
15
16 8: me.....
17 .....
18 .....
19
20 val: width 8: width..... Decimals 9: dec..
21 Range: Hi 10: Hi..... Lo 11:lo.. Units 12: units
22
23 < OK > < CANCEL >
    
```

Name	Type	Picture
1: m.areaname	Field	
2: rule.rule	Field	
3: minvprem	Push button	"@*HN \<IF:"
4: mp	List	"@&N"
5: minvact	Push button	"@*HN \<THEN:"
6: ma	List	"@&N"
7: minvelse	Push button	"@*HN \<ELSE:"
8: me	List	"@&N"
9: mbutton	Push button	"@*VN"



Window name: W_obj
 Coordinates: FROM 0,0 TO 0,61
 Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.obj	List	"@&N"
2: m.buttons	Push button	"@*HT \<New; \<Ok; \<Cancel"

Data Element Editor

```

0 Id 1:... Name 2:name..... Type 
1
2 Use in rule
3
4 
5 .....
6 .....
7
8 Question Askbale: 5:as
9
10 
11 .....
12 .....
13
14 Enum
15
16 
17 .....
18 .....
19
20 val: width 8: width..... Decimals 9: dec..
21 Range: Hi 10: Hi..... Lo 11:lo.. Units 12: units
22
23 < OK > < CANCEL >
    
```

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	
3: m.datatype	Popup	"@^ N;E;M;L"
4: m.rulesuse	List	"@&N"
5: m.askable	Field	
6: m.question	Field	
7: mp	List	"@&N"
8: m.width	Field	
9: m.dec	Field	
10: m.hi	Field	
11: m.lo	Field	
12: m.units	Field	
13: mbuttons	Push button	"@*HT OK;Cancel"

V. DDENUM.SCX

Last updated: 10/03/94 at 15:01

```
0 Mutex 2:  
1 Enum 3: enumerate.....  
2 Ord 1:  
3  
          < Add > < OK > <Cancel>
```

Name	Type	Picture
1: m.ord	Field	
2: m.mutex	Field	
3: m.enumerate	Field	"@!"
4: mbuttons	Push button	"@*HN Add;OK;Cancel"

```

0
1 Read From Definition file:
2 1: src.....
3
4
5 Create Files in Temporary directory:
6 2: new.....
7
8 3: dbf.....
9 .....
10 .....
11 .....
12 .....
13 .....
14 .....
15

```

3: dbf.....

.....

.....

.....

.....

.....

.....

< Load >

<Cancel>

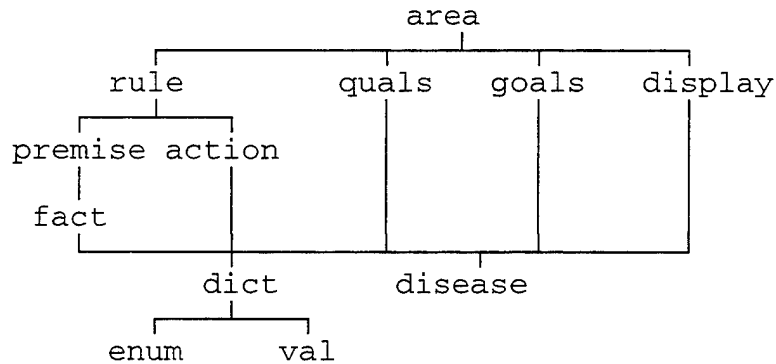
Name	Type	Picture
1: m.src	Field	
2: m.new	Field	
3: m.dbf	List	"@&N"
4: m.load	Push button	"@*VN Load"
5: mbuttonc	Push button	"@*VT Cancel"
6: m.src	Field	
7: m.new	Field	
8: m.dbf	List	"@&N"
9: m.load	Push button	"@*VT Load"
10: mbuttonc	Push button	"@*VT Cancel"

Section IV. Data Dictionary. The system contains 14 databases.

DICTIONARY.DBF -- Data element dictionary
ACTION.DBF -- List of action for each rule
DISEASE.DBF -- Disease element dictionary
ENUM.DBF -- List of values for enumerate types
HELP.DBF -- Fox command help text
KBHELP.DBF -- Knowledge Base Command help text
PREMISE.DBF -- List of premises for each rule
RULE.DBF -- List of qualifiers for each knowledge base
VAL.DBF -- Attributes for each numeric type
AREA.DBF -- Diagnostic area or knowledge base
GOALS.DBF -- List of goals for each knowledge base
DISPLAY.DBF -- List of qualifiers shown for each knowledge base
QUALS.DBF -- List of qualifiers for each knowledge base
FACT.DBF -- Factors in rule premises

A. Knowledge Base Structure (relationship of database)

The following chart shows the structure of the knowledge base. This structure is used to set up relationships between the database and knowledge base:



Important facts about the knowledge base include:

The **AREA** file is the primary parent of all other files, as it relates to the inference engine. Therefore, selecting an area or knowledge base, means that the associated set of rules, qualifiers, goals and displays is also selected.

The **RULE** file is the parent of the **PREMISE** and **ACTION** files. Therefore, selecting a **RULE**, means that a set of **PREMISE** and **ACTION** clauses is also selected for that rule. The inference engine can select a particular rule and then retrieve corresponding **PREMISE** and **ACTION** clauses from the

child files. Since the RULE:PREMISE and RULE:ACTION relationships are one-to-many, several PREMISE and ACTION clauses can be associated with one rule.

The **PREMISE** file is the parent of the FACT file. Therefore, selecting a premise means that a set of fact clauses is also selected for that premise. When the inference engine evaluates a rule premise, it can retrieve the corresponding FACT clauses from the child file.

The **DICTIONARY** and **DISEASE** files are the children files of several of the knowledge base tables, including the QUALS, GOALS, DISPLAY, FACT, and ACTION files. The DICTIONARY and DISEASE files therefore play a central role in the knowledge base structure. These are the repositories for the basic data element definitions that are used in many places throughout the knowledge base.

The **DICTIONARY** file is the parent of the ENUM and VAL files. Each DICTIONARY element can have several ENUM entries associated with it, since this is a one-to-many relationship. Each DICTIONARY element can have one VAL entry associated with it, since this is a one-to-one relationship.

B. Database Structure Summary.

1. Structure for table/dbf: **DICTIONARY.DBF**

Number of data records : 256 Last updated : 06/17/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	NAME	Character	80	0	5	84
3	ALIAS	Character	20	0	85	104
4	DATATYPE	Character	1	0	105	105
5	ASKABLE	Logical	1	0	106	106
6	QUESTION	Character	100	0	107	206
7	PROMPT	Character	80	0	207	286
8	META	Logical	1	0	287	287
**	Total	**	288			

This table/dbf is associated with index file/tag(s):

: DICTID.IDX (ID)
: DICTNAME.IDX (NAME)

Used by: KB.SPR and DD.SPR

2. Structure for table/dbf: **DISEASE.DBF**

Number of data records : 51 Last updated : 06/10/93

Field	Field name	Type	Width	Dec	Start	End
-------	------------	------	-------	-----	-------	-----

1	ID	Numeric	5	0	1	5
2	NAME	Character	80	0	6	85
3	ALIAS	Character	20	0	86	105
4	DESCRIPT	Memo	10	0	106	115
5	TREATMENT	Memo	10	0	116	125
6	BRIEF	Memo	10	0	126	135
** Total **			136			

This table/dbf is associated with the memo file: DISEASE.FPT

This table/dbf is associated with index file/tag(s):

: DISID.IDX (ID)
: DISEASE.IDX (NAME)

Used by: KB.SPR

3. Structure for table/dbf: **ACTION.DBF**

Number of data records : 2344 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	2	0	6	7
3	OBJECT	Character	1	0	8	8
4	ID	Numeric	5	0	9	13
5	TAG	Character	1	0	14	14
6	VAL	Character	10	0	15	24
7	TEXT	Memo	10	0	25	34
** Total **			35			

This table/dbf is associated with the memo file: ACTION.FPT

This table/dbf appears to be associated with index file/tag(s):

: ACTION.IDX (CLAUSE)

Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

4. Structure for table/dbf: **ENUM.DBF**

Number of data records : 698 Last updated : 06/07/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	ORD	Numeric	2	0	5	6
3	MUTEX	Character	1	0	7	7
4	ENUMERATE	Character	80	0	8	87
5	REPORT	Character	80	0	88	167
** Total **			168			

This table/dbf appears to be associated with index file/tag(s):

: ENUM.IDX (ID)

Used by: KB.SPR and DD.SPR

5. Structure for table/dbf: **HELP.DBF**

Number of data records : 147 Last updated : 09/17/93

Field	Field name	Type	Width	Dec	Start	End
-------	------------	------	-------	-----	-------	-----

1	TOPIC	Character	80	0	1	80
2	DETAILS	Memo	10	0	81	90
3	CLASS	Character	20	0	91	110
4	ID	Numeric	5	0	111	115
5	SOURCE	Character	1	0	116	116
**	Total	**	117			

This table/dbf is associated with the memo file: HELP.FPT

6. Structure for table/dbf: **KBHELP.DBF** Alias: HELP
 Number of data records : 20 Last updated : 05/29/92

Field	Field name	Type	Width	Dec	Start	End
1	TOPIC	Character	30	0	1	30
2	DETAILS	Memo	10	0	31	40
3	CLASS	Character	20	0	41	60
4	ID	Numeric	5	0	61	65
5	SOURCE	Character	1	0	66	66
** Total **			67			

This table/dbf is associated with the memo file: KBHELP.FPT
 Used by: KBLDR.PRG

7. Structure for table/dbf: **PREMISE.DBF**
 Number of data records : 1809 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	1	0	6	6
3	FACT	Numeric	5	0	7	11
4	FACTR	Numeric	5	0	12	16
** Total **			17			

This table/dbf appears to be associated with index file/tag(s):
 : PREMISE.IDX (CLAUSE)
 Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

8. Structure for table/dbf: **RULE.DBF**
 Number of data records : 564 Last updated : 06/01/93

Field	Field name	Type	Width	Dec	Start	End
1	RULE	Numeric	5	0	1	5
2	AREA	Numeric	4	0	6	9
3	SALIENCE	Numeric	3	0	10	12
4	PREMISE	Numeric	5	0	13	17
5	ACTION	Numeric	5	0	18	22
6	ELSE	Numeric	5	0	23	27
7	QUALS	Memo	10	0	28	37
8	GOALS	Memo	10	0	38	47
9	NOTE	Memo	10	0	48	57
10	EXPLAIN	Memo	10	0	58	67
** Total **			68			

This table/dbf is associated with the memo file: RULE.FPT
 This table/dbf appears to be associated with index file/tag(s):
 : RULEAREA.IDX (AREA)
 : SALIENCE.IDX (SALIENCE)
 : RULE.IDX (RULE)
 Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

9. Structure for table/dbf: **VAL.DBF**

Number of data records : 19 Last updated : 04/29/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	WIDTH	Numeric	2	0	5	6
3	DEC	Numeric	1	0	7	7
4	LO	Numeric	9	2	8	16
5	HI	Numeric	9	2	17	25
6	UNITS	Character	10	0	26	35
** Total **			36			

This table/dbf appears to be associated with index file/tag(s):

: VAL.IDX (ID)

Used by: KB.SPR and DD.SPR

10. Structure for table/dbf: **AREA.DBF**

Number of data records : 4 Last updated : 06/17/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	NAME	Character	30	0	5	34
3	INFERENCE	Numeric	1	0	35	35
4	METHOD	Numeric	1	0	36	36
5	ISDIAG	Numeric	1	0	37	37
6	SIGNON	Character	30	0	38	67
7	START	Character	30	0	68	97
8	FINISH	Character	30	0	98	127
9	THRESHOLD	Numeric	6	2	128	133
10	PROBABLE	Numeric	6	2	134	139
11	LIKELY	Numeric	6	2	140	145
12	RULES	Numeric	4	0	146	149
** Total **			150			

This table/dbf appears to be associated with index file/tag(s):

: AREA.IDX (AREA)

Used by: KB.SPR and DD.SPR

11. Structure for table/dbf: **GOALS.DBF**

Number of data records : 89 Last updated : 05/11/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	OBJECT	Character	1	0	5	5
3	ID	Numeric	5	0	6	10
** Total **			11			

This table/dbf appears to be associated with index file/tag(s):

: GOALS.IDX (ID)

Used by: KB.SPR and DD.SPR

12. Structure for table/dbf: **DISPLAY.DBF**

Number of data records : 5 Last updated : 12/07/92

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	5	0	1	5
2	ID	Numeric	5	0	6	10
3	OBJECT	Character	1	0	11	11
** Total **			12			

This table/dbf is not associated with index files/tags(s).
Used by: KB.SPR

13. Structure for table/dbf: **QUALS.DBF**

Number of data records : 292 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	OBJECT	Character	1	0	5	5
3	ID	Numeric	5	0	6	10
4	RULES	Memo	10	0	11	20
5	RULESO	Memo	10	0	21	30
** Total **			31			

This table/dbf is associated with the memo file: QUALS.FPT
This table/dbf appears to be associated with index file/tag(s):
: QUALS.IDX (ID)
Used by: KB.SPR and DD.SPR

14. Structure for table/dbf: **FACT.DBF**

Number of data records : 1223 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	2	0	6	7
3	OBJECT	Character	1	0	8	8
4	ID	Numeric	5	0	9	13
5	TAG	Character	1	0	14	14
6	VAL	Character	10	0	15	24
7	TEXT	Memo	10	0	25	34
** Total **			35			

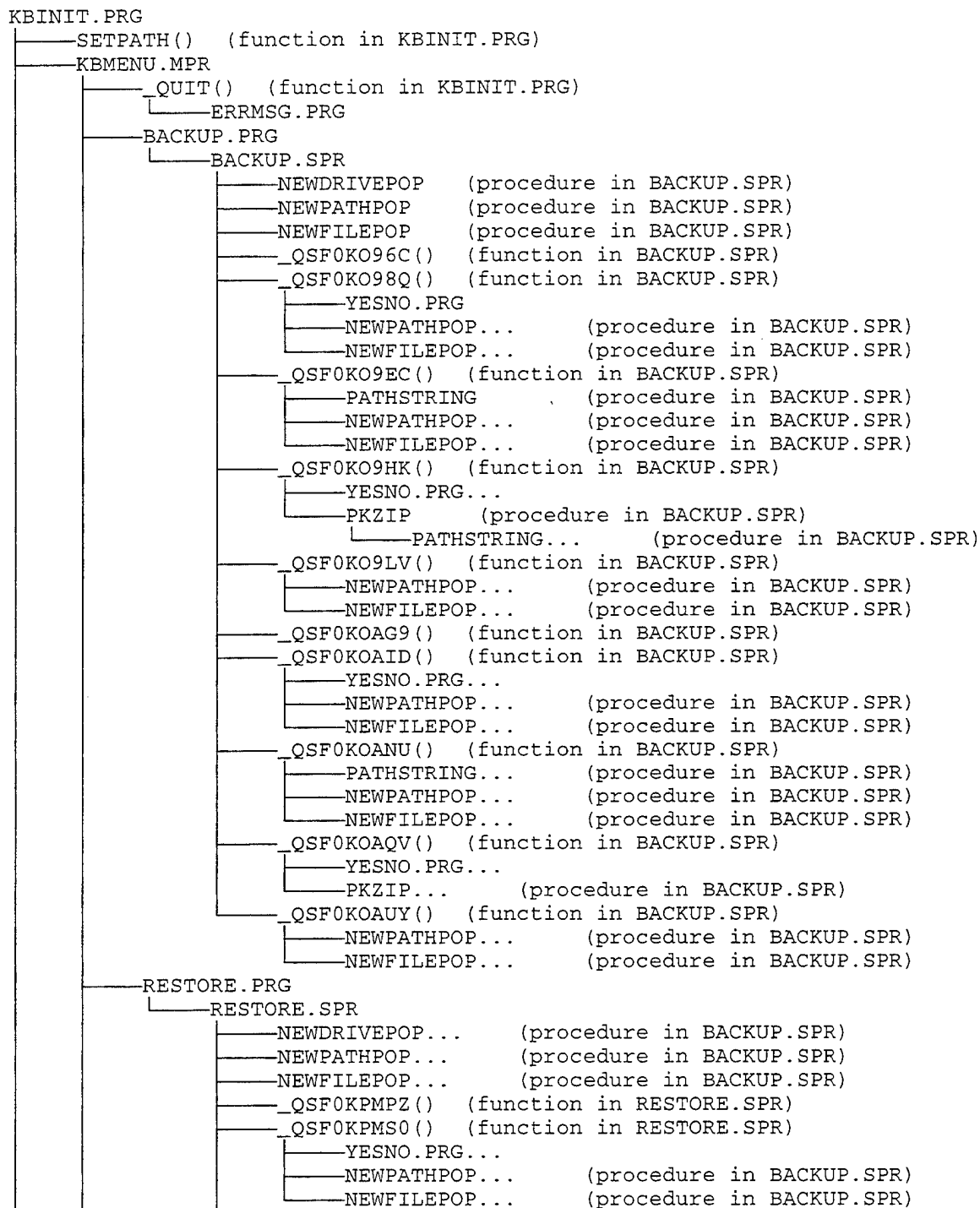
This table/dbf is associated with the memo file: FACT.FPT
This table/dbf appears to be associated with index file/tag(s):
: FACT.IDX (CLAUSE)
Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

C. Database Field Summary

Field Name	Type	Len	Dec	Table/DBF
ACTION	N	5	0	RULE.DBF
ALIAS	C	20	0	DICT.DBF
ALIAS	C	20	0	DISEASE.DBF
AREA	N	4	0	AREA.DBF
AREA	N	5	0	DISPLAY.DBF
AREA	N	4	0	GOALS.DBF
AREA	N	4	0	QUALS.DBF
AREA	N	4	0	RULE.DBF
ASKABLE	L	1	0	DICT.DBF
BRIEF	M	10	0	DISEASE.DBF
CLASS	C	20	0	HELP.DBF
CLASS	C	20	0	KBHELP.DBF
CLAUSE	N	5	0	ACTION.DBF
CLAUSE	N	5	0	FACT.DBF
CLAUSE	N	5	0	PREMISE.DBF
DATATYPE	C	1	0	DICT.DBF
DEC	N	1	0	VAL.DBF
DESCRIPT	M	10	0	DISEASE.DBF
DETAILS	M	10	0	HELP.DBF
DETAILS	M	10	0	KBHELP.DBF
ELSE	N	5	0	RULE.DBF
ENUMERATE	C	80	0	ENUM.DBF
EXPLAIN	M	10	0	RULE.DBF
FACT	N	5	0	PREMISE.DBF
FACTR	N	5	0	PREMISE.DBF
FINISH	C	30	0	AREA.DBF
GOALS	M	10	0	RULE.DBF
HI	N	9	2	VAL.DBF
ID	N	5	0	ACTION.DBF
ID	N	4	0	DICT.DBF
ID	N	5	0	DISEASE.DBF
ID	N	5	0	DISPLAY.DBF
ID	N	4	0	ENUM.DBF
ID	N	5	0	FACT.DBF
ID	N	5	0	GOALS.DBF
ID	N	5	0	HELP.DBF
ID	N	5	0	KBHELP.DBF
ID	N	5	0	QUALS.DBF
ID	N	4	0	VAL.DBF
INFERENCE	N	1	0	AREA.DBF
ISDIAG	N	1	0	AREA.DBF
LIKELY	N	6	2	AREA.DBF
LO	N	9	2	VAL.DBF

META	L	1	0	DICT.DBF
METHOD	N	1	0	AREA.DBF
MUTEX	C	1	0	ENUM.DBF
<u>Field Name</u>	<u>Type</u>	<u>Len</u>	<u>Dec</u>	<u>Table/DBF</u>
NAME	C	30	0	AREA.DBF
NAME	C	80	0	DICT.DBF
NAME	C	80	0	DISEASE.DBF
NOTE	M	10	0	RULE.DBF
OBJECT	C	1	0	ACTION.DBF
OBJECT	C	1	0	DISPLAY.DBF
OBJECT	C	1	0	FACT.DBF
OBJECT	C	1	0	GOALS.DBF
OBJECT	C	1	0	QUALS.DBF
OP	C	2	0	ACTION.DBF
OP	C	2	0	FACT.DBF
OP	C	1	0	PREMISE.DBF
ORD	N	2	0	ENUM.DBF
PREMISE	N	5	0	RULE.DBF
PROBABLE	N	6	2	AREA.DBF
PROMPT	C	80	0	DICT.DBF
QUALS	M	10	0	RULE.DBF
QUESTION	C	100	0	DICT.DBF
REPORT	C	80	0	ENUM.DBF
RULE	N	5	0	RULE.DBF
RULES	N	4	0	AREA.DBF
RULES	M	10	0	QUALS.DBF
RULESO	M	10	0	QUALS.DBF
SALIENCE	N	3	0	RULE.DBF
SIGNON	C	30	0	AREA.DBF
SOURCE	C	1	0	HELP.DBF
SOURCE	C	1	0	KBHELP.DBF
START	C	30	0	AREA.DBF
TAG	C	1	0	ACTION.DBF
TAG	C	1	0	FACT.DBF
TEXT	M	10	0	ACTION.DBF
TEXT	M	10	0	FACT.DBF
THRESHOLD	N	6	2	AREA.DBF
TOPIC	C	80	0	HELP.DBF
TOPIC	C	30	0	KBHELP.DBF
TREATMENT	M	10	0	DISEASE.DBF
UNITS	C	10	0	VAL.DBF
VAL	C	10	0	ACTION.DBF
VAL	C	10	0	FACT.DBF
WIDTH	N	2	0	VAL.DBF

Section V. Tree Diagram. The tree diagram shows the correlate among the function and procedure. The diagram lists each program in the order in which it is used. Each program has a list of all functions called and where the procedure/function is stored.



```

_QSF0KPMXI() (function in RESTORE.SPR)
  |
  |---PATHSTRING... (procedure in BACKUP.SPR)
  |---NEWPATHPOP... (procedure in BACKUP.SPR)
  |---NEWFILEPOP... (procedure in BACKUP.SPR)
_QSF0KPN0J() (function in RESTORE.SPR)
  |
  |---PKUNZIP (procedure in RESTORE.SPR)
  |   |---PATHSTRING... (procedure in BACKUP.SPR)
_QSF0KPN3T() (function in RESTORE.SPR)
  |
  |---NEWPATHPOP... (procedure in BACKUP.SPR)
  |---NEWFILEPOP... (procedure in BACKUP.SPR)
_QSF0KPN7E() (function in RESTORE.SPR)
_QSF0KPNY5() (function in RESTORE.SPR)
_QSF0KPO0A() (function in RESTORE.SPR)
  |
  |---YESNO.PRG...
  |---NEWPATHPOP... (procedure in BACKUP.SPR)
  |---NEWFILEPOP... (procedure in BACKUP.SPR)
_QSF0KPO5T() (function in RESTORE.SPR)
  |
  |---PATHSTRING... (procedure in BACKUP.SPR)
  |---NEWPATHPOP... (procedure in BACKUP.SPR)
  |---NEWFILEPOP... (procedure in BACKUP.SPR)
_QSF0KPO8T() (function in RESTORE.SPR)
  |
  |---PKUNZIP... (procedure in RESTORE.SPR)
_QSF0KPOBY() (function in RESTORE.SPR)
  |
  |---NEWPATHPOP... (procedure in BACKUP.SPR)
  |---NEWFILEPOP... (procedure in BACKUP.SPR)
_QSF0KPOFG() (function in RESTORE.SPR)

KB.SPR
  |
  |---SETQUALS (procedure in KB.SPR)
  |---SETGOALS (procedure in KB.SPR)
  |---SETDISPLAY (procedure in KB.SPR)
  |---_QSF0KOFX9() (function in KB.SPR)

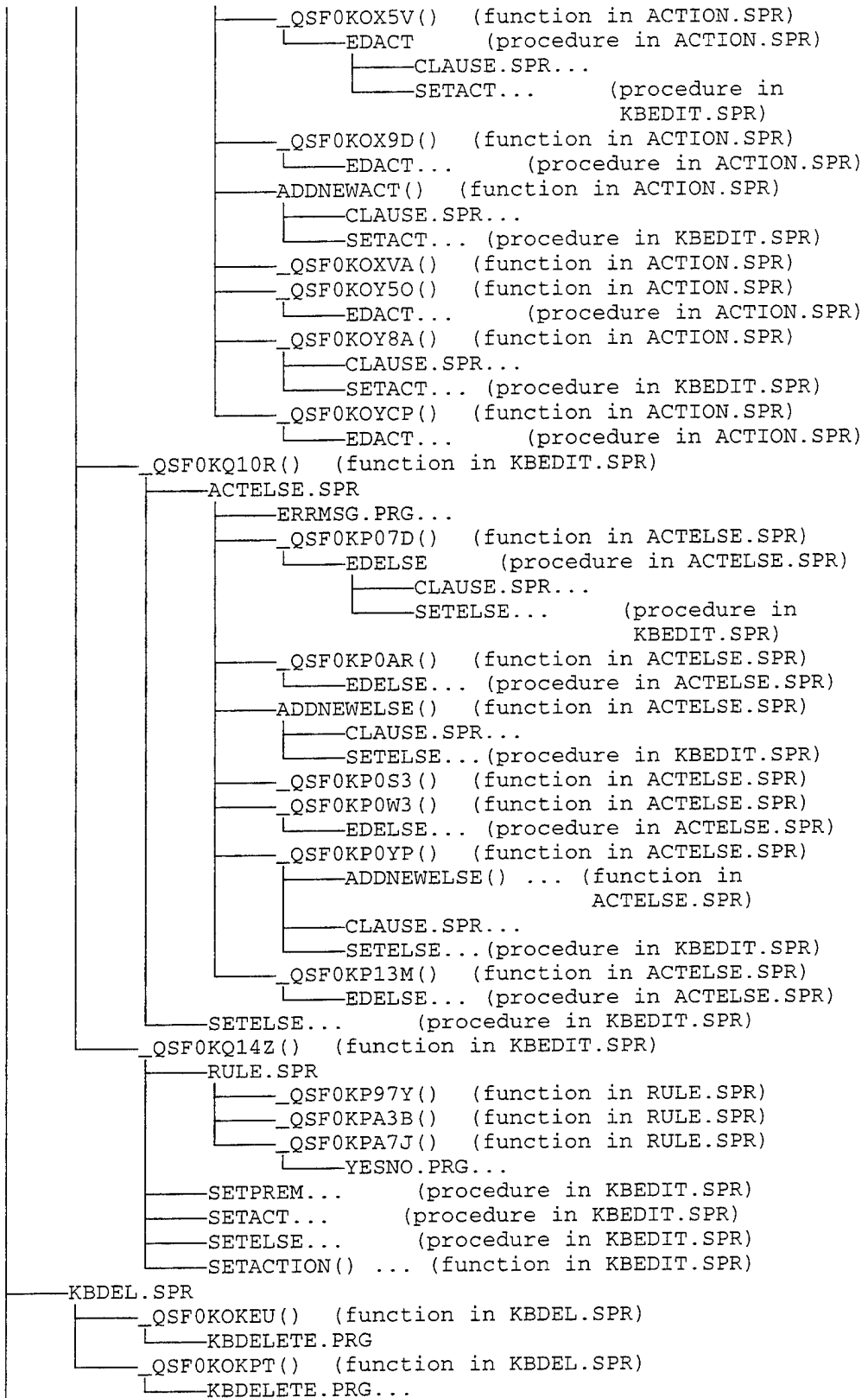
KBLOAD.SPR
  |
  |---_QSF0KQBANK() (function in KBLOAD.SPR)
  |   |---LOADOK (procedure in KBLOAD.SPR)
  |---_QSF0KQBT0() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQC1J() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQC42() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQC6T() (function in KBLOAD.SPR)
  |   |---CHECKFILE() (function in KBLOAD.SPR)
  |   |   |---YESNO.PRG...
  |   |---POPUPSHOW() (function in KBINIT.PRG)
  |   |---KBLDR.PRG
  |   |---POPUPHIDE() (function in KBINIT.PRG)
  |---_QSF0KQCP2() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQCRO() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQCUA() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQCWT() (function in KBLOAD.SPR)
  |   |---LOADOK... (procedure in KBLOAD.SPR)
  |---_QSF0KQCZG() (function in KBLOAD.SPR)
  |   |---KBLDR.PRG...

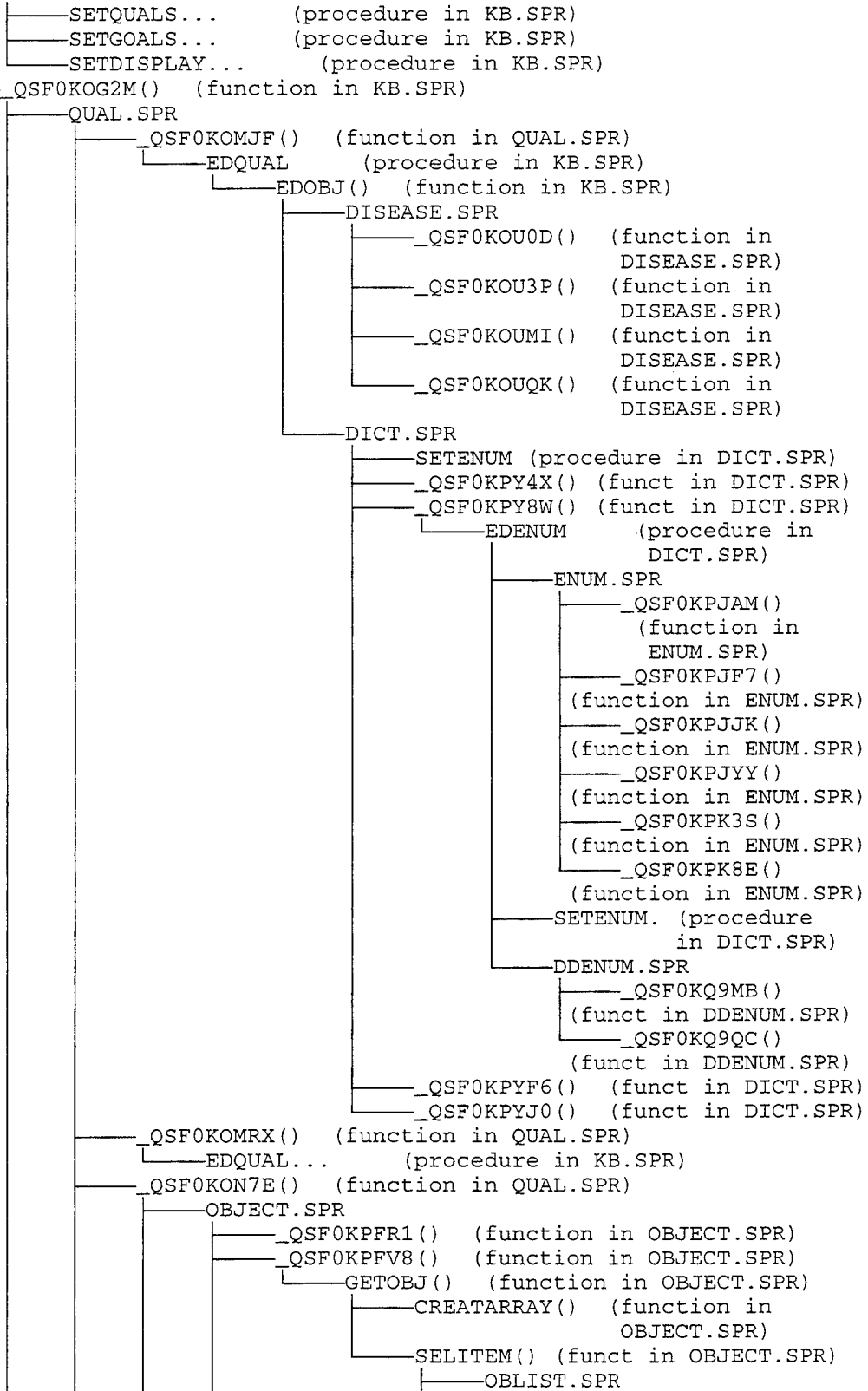
```

```

KBEDIT.SPR
├── SETPREM      (procedure in KBEDIT.SPR)
│   ├── SEMPTY() (function in KBEDIT.SPR)
│   ├── HLINK()  (function in KBEDIT.SPR)
│   └── VLINK()  (function in KBEDIT.SPR)
├── SETACT      (procedure in KBEDIT.SPR)
├── SETELSE     (procedure in KBEDIT.SPR)
├── SETACTION() (function in KBEDIT.SPR)
├── _QSF0KQ0SA() (function in KBEDIT.SPR)
└── TERM.SPR
    ├── ADDFACT() (function in TERM.SPR)
    │   └── CLAUSE.SPR
    │       ├── SETOBJECT() (function in CLAUSE.SPR)
    │       ├── _QSF0KP3SZ() (function in CLAUSE.SPR)
    │       ├── _QSF0KP3X2() (function in CLAUSE.SPR)
    │       ├── _QSF0KP435() (function in CLAUSE.SPR)
    │       ├── _QSF0KP472() (function in CLAUSE.SPR)
    │       ├── INSNEWID() (function CLAUSE.SPR)
    │       │   └── DP.PRG
    │       ├── _QSF0KP5HS() (function in CLAUSE.SPR)
    │       ├── _QSF0KP5LZ() (function in CLAUSE.SPR)
    │       ├── _QSF0KP5Q1() (function in CLAUSE.SPR)
    │       └── _QSF0KP5UC() (function in CLAUSE.SPR)
    ├── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KPC3R() (function in TERM.SPR)
    │   └── EDPREM      (procedure in TERM.SPR)
    │       ├── CLAUSE.SPR...
    │       └── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KPC6D() (function in TERM.SPR)
    │   └── EDPREM... (procedure in TERM.SPR)
    ├── _QSF0KPCPM() (function in TERM.SPR)
    ├── _QSF0KPCU9() (function in TERM.SPR)
    │   └── SETJOIN() (function in TERM.SPR)
    │       └── SETPREM... (procedure in KBEDIT.SPR)
    ├── _QSF0KPCWU() (function in TERM.SPR)
    │   └── SETJOIN() ... (function in TERM.SPR)
    ├── _QSF0KPCZG() (function in TERM.SPR)
    │   └── EDPREM... (procedure in TERM.SPR)
    ├── _QSF0KPD1Z() (function in TERM.SPR)
    │   └── ADDFACT() ... (function in TERM.SPR)
    ├── _QSF0KPD51() (function in TERM.SPR)
    │   └── EDPREM... (procedure in TERM.SPR)
    ├── SETPREM... (procedure in KBEDIT.SPR)
    └── _QSF0KQ0WK() (function in KBEDIT.SPR)
        └── ACTION.SPR
            └── ERRMSG.PRG...

```

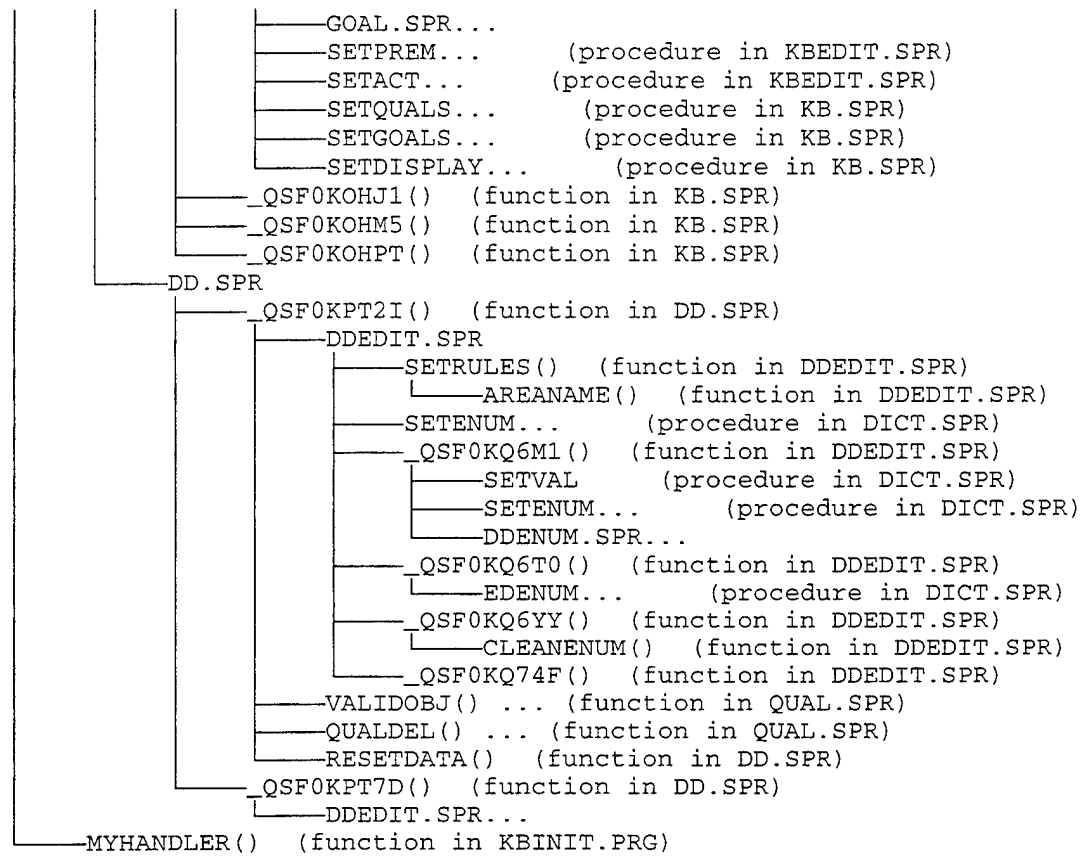




```

└──_QSF0KQ4M3() (funct in
      OBLIST.SPR)
      └──DISEASE.SPR...
      └──DICT.SPR...
      └──_QSF0KPFYY() (function in OBJECT.SPR)
      └──_QSF0KPG47() (function in OBJECT.SPR)
            └──CREATARRAY() ... (funct in OBJECT.SPR)
            └──SELITEM() ... (funct in OBJECT.SPR)
      └──_QSF0KPGOJ() (function in OBJECT.SPR)
      └──_QSF0KPGSR() (function in OBJECT.SPR)
            └──GETOBJ() ... (function in OBJECT.SPR)
      └──_QSF0KPGVZ() (function in OBJECT.SPR)
      └──_QSF0KPH17() (function in OBJECT.SPR)
            └──CREATARRAY() ... (funct in OBJECT.SPR)
            └──SELITEM() ... (funct in OBJECT.SPR)
      └──SETQUALS... (procedure in KB.SPR)
      └──VALIDOBJ() (function in QUAL.SPR)
            └──ERRMSG.PRG...
      └──QUALDEL() (function in QUAL.SPR)
            └──POPUPSHOW() ... (function in KBINIT.PRG)
            └──POPUPHIDE() ... (function in KBINIT.PRG)
            └──SETQUALS... (procedure in KB.SPR)
      └──_QSF0KONBU() (function in QUAL.SPR)
            └──EDQUAL... (procedure in KB.SPR)
      └──GOAL.SPR
            └──_QSF0KOPCM() (function in GOAL.SPR)
            └──EDGOAL (procedure in KB.SPR)
                  └──EDOBJ() ... (function in KB.SPR)
      └──_QSF0KOPG7() (function in GOAL.SPR)
            └──EDGOAL... (procedure in KB.SPR)
      └──_QSF0KOPTK() (function in GOAL.SPR)
            └──OBJECT.SPR...
            └──SETGOALS... (procedure in KB.SPR)
      └──_QSF0KOPXH() (function in GOAL.SPR)
            └──EDGOAL... (procedure in KB.SPR)
      └──DISPLAY.SPR
            └──_QSF0KORJ1() (function in DISPLAY.SPR)
            └──EDDISPLAY (procedure in KB.SPR)
                  └──EDOBJ() ... (function in KB.SPR)
      └──_QSF0KORMJ() (function in DISPLAY.SPR)
            └──EDDISPLAY... (procedure in KB.SPR)
      └──_QSF0KORZX() (function in DISPLAY.SPR)
      └──_QSF0KOS30() (function in DISPLAY.SPR)
      └──_QSF0KOS6A() (function in DISPLAY.SPR)
            └──EDDISPLAY... (procedure in KB.SPR)
      └──SETQUALS... (procedure in KB.SPR)
      └──SETGOALS... (procedure in KB.SPR)
      └──SETDISPLAY... (procedure in KB.SPR)
      └──_QSF0KOGFV() (function in KB.SPR)
      └──_QSF0KOGIH() (function in KB.SPR)
      └──_QSF0KOH4Z() (function in KB.SPR)
      └──KBLOAD.SPR...
      └──KBDEL.SPR...
      └──DISPLAY.SPR...
      └──KB.SPR...
      └──RULE.SPR...
      └──QUAL.SPR...

```



Section VI. Procedure and Function Summary. The system contains 24 procedure files: KBINIT.PRG, KBLOAD.SPR, KB.SPR, KBDEL.SPR, QUAL.SPR, GOAL.SPR, DISPLAY.SPR, DISEASE.SPR, ACTION.SPR, ACTELSE.SPR, CLAUSE.SPR, RULE.SPR, TERM.SPR, OBJECT.SPR, ENUM.SPR, RESTORE.SPR, DD.SPR, PLAN.SPR, DICT.SPR, KBEDIT.SPR, OBLIST.SPR, DDEDIT.SPR, DDENUM.SPR, and BACKUP.SPR

1. KBINIT.PRG

Contains: MYHANDLER() (Params: none)
 Called by: KBINIT.PRG
 Contains: _QUIT() (Params: none)
 Called by: KBMENU.MPR
 Calls: ERRMSG.PRG
 Contains: POPUPSHOW() (Params: ERRSTR)
 Called by: QUALDEL() (function in QUAL.SPR)
 Called by: _QSF0KQC6T() (function in KBLOAD.SPR)
 Contains: POPUPHIDE() (Params: W)
 Called by: QUALDEL() (function in QUAL.SPR)
 Called by: _QSF0KQC6T() (function in KBLOAD.SPR)
 Contains: SETPATH() (Params: NEWPATH)
 Called by: KBINIT.PRG

2. KBLOAD.SPR

Contains: _QSF0KQBNK() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQBT0() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQC1J() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQC42() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQC6T() (Params: none)
 Called by: KBLOAD.SPR
 Calls: CHECKFILE() (function in KBLOAD.SPR)
 Calls: POPUPSHOW() (function in KBINIT.PRG)
 Calls: KBLDR.PRG
 Calls: POPUPHIDE() (function in KBINIT.PRG)
 Contains: _QSF0KQCP2() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQCRO() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQCUA() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQCWT() (Params: none)
 Called by: KBLOAD.SPR
 Calls: LOADOK (procedure in KBLOAD.SPR)
 Contains: _QSF0KQCZG() (Params: none)

Called by: KBLOAD.SPR
 Calls: KBLDR.PRG
 Contains: LOADOK (Params: none)
 Called by: KBLOAD.SPR
 Called by: _QSF0KQBNK() (function in KBLOAD.SPR)
 Called by: _QSF0KQBT0() (function in KBLOAD.SPR)
 Called by: _QSF0KQC1J() (function in KBLOAD.SPR)
 Called by: _QSF0KQC42() (function in KBLOAD.SPR)
 Called by: _QSF0KQCP2() (function in KBLOAD.SPR)
 Called by: _QSF0KQCRO() (function in KBLOAD.SPR)
 Called by: _QSF0KQCUA() (function in KBLOAD.SPR)
 Called by: _QSF0KQCWT() (function in KBLOAD.SPR)
 Contains: CHECKFILE() (Params: M.NEW)
 Called by: _QSF0KQC6T() (function in KBLOAD.SPR)
 Calls: YESNO.PRG

3. KB.SPR

Contains: _QSF0KOFX9() (Params: none)
 Called by: KB.SPR
 Calls: KBLOAD.SPR
 Calls: KBEDIT.SPR
 Calls: KBDEL.SPR
 Calls: SETQUALS (procedure in KB.SPR)
 Calls: SETGOALS (procedure in KB.SPR)
 Calls: SETDISPLAY (procedure in KB.SPR)
 Contains: _QSF0KOG2M() (Params: none)
 Called by: KB.SPR
 Calls: QUAL.SPR
 Calls: GOAL.SPR
 Calls: DISPLAY.SPR
 Calls: SETQUALS (procedure in KB.SPR)
 Calls: SETGOALS (procedure in KB.SPR)
 Calls: SETDISPLAY (procedure in KB.SPR)
 Contains: _QSF0KOGFV() (Params: none)
 Called by: KB.SPR
 Contains: _QSF0KOGIH() (Params: none)
 Called by: KB.SPR
 Contains: _QSF0KOH4Z() (Params: none)
 Called by: KB.SPR
 Calls: KBLOAD.SPR
 Calls: KBDEL.SPR
 Calls: DISPLAY.SPR
 Calls: KB.SPR
 Calls: RULE.SPR
 Calls: QUAL.SPR
 Calls: GOAL.SPR
 Calls: SETPREM (procedure in KBEDIT.SPR)
 Calls: SETACT (procedure in KBEDIT.SPR)
 Calls: SETQUALS (procedure in KB.SPR)
 Calls: SETGOALS (procedure in KB.SPR)
 Calls: SETDISPLAY (procedure in KB.SPR)
 Contains: _QSF0KOHJ1() (Params: none)
 Called by: KB.SPR
 Contains: _QSF0KOHM5() (Params: none)
 Called by: KB.SPR
 Contains: _QSF0KOHPT() (Params: none)

Called by: KB.SPR
 Contains: SETQUALS (Params: none)
 Called by: KB.SPR
 Called by: _QSF0KOFX9() (function in KB.SPR)
 Called by: _QSF0KOG2M() (function in KB.SPR)
 Called by: _QSF0KOH4Z() (function in KB.SPR)
 Called by: _QSF0KON7E() (function in QUAL.SPR)
 Called by: QUALDEL() (function in QUAL.SPR)
 Contains: SETGOALS (Params: none)
 Called by: KB.SPR
 Called by: _QSF0KOFX9() (function in KB.SPR)
 Called by: _QSF0KOG2M() (function in KB.SPR)
 Called by: _QSF0KOH4Z() (function in KB.SPR)
 Called by: _QSF0KOPTK() (function in GOAL.SPR)
 Called by: _QSF0KPV8R() (function in PLAN.SPR)
 Called by: _QSF0KPVQB() (function in PLAN.SPR)
 Contains: SETDISPLAY (Params: none)
 Called by: KB.SPR
 Called by: _QSF0KOFX9() (function in KB.SPR)
 Called by: _QSF0KOG2M() (function in KB.SPR)
 Called by: _QSF0KOH4Z() (function in KB.SPR)
 Contains: EDGOAL (Params: none)
 Called by: _QSF0KOPCM() (function in GOAL.SPR)
 Called by: _QSF0KOPG7() (function in GOAL.SPR)
 Called by: _QSF0KOPXH() (function in GOAL.SPR)
 Called by: _QSF0KPVCR() (function in PLAN.SPR)
 Called by: _QSF0KPVW8() (function in PLAN.SPR)
 Calls: EDOBJ() (function in KB.SPR)
 Contains: EDQUAL (Params: none)
 Called by: _QSF0KOMJF() (function in QUAL.SPR)
 Called by: _QSF0KOMRX() (function in QUAL.SPR)
 Called by: _QSF0KONBU() (function in QUAL.SPR)
 Calls: EDOBJ() (function in KB.SPR)
 Contains: EDDISPLAY (Params: none)
 Called by: _QSF0KORJ1() (function in DISPLAY.SPR)
 Called by: _QSF0KORMJ() (function in DISPLAY.SPR)
 Called by: _QSF0KOS6A() (function in DISPLAY.SPR)
 Calls: EDOBJ() (function in KB.SPR)
 Contains: EDOBJ() (Params: MOB, MID)
 Called by: EDGOAL (procedure in KB.SPR)
 Called by: EDQUAL (procedure in KB.SPR)
 Called by: EDDISPLAY (procedure in KB.SPR)
 Calls: DISEASE.SPR
 Calls: DICT.SPR

4. KBDEL.SPR

Contains: _QSF0KKEU() (Params: none)
 Called by: KBDEL.SPR
 Calls: KBDELETE.PRG
 Contains: _QSF0KOKPT() (Params: none)
 Called by: KBDEL.SPR
 Calls: KBDELETE.PRG

5. QUAL.SPR

Contains: _QSF0KOMJF() (Params: none)

Called by: QUAL.SPR
 Calls: EDQUAL (procedure in KB.SPR)
 Contains: _QSF0KOMRX() (Params: none)
 Called by: QUAL.SPR
 Calls: EDQUAL (procedure in KB.SPR)
 Contains: _QSF0KON7E() (Params: none)
 Called by: QUAL.SPR
 Calls: OBJECT.SPR
 Calls: SETQUALS (procedure in KB.SPR)
 Calls: VALIDOBJ() (function in QUAL.SPR)
 Calls: QUALDEL() (function in QUAL.SPR)
 Contains: _QSF0KONBU() (Params: none)
 Called by: QUAL.SPR
 Calls: EDQUAL (procedure in KB.SPR)
 Contains: POPUPSHOW() (Params: ERRSTR)
 Called by: QUALDEL() (function in QUAL.SPR)
 Called by: _QSF0KQC6T() (function in KBLOAD.SPR)
 Contains: POPUPHIDE() (Params: W)
 Called by: QUALDEL() (function in QUAL.SPR)
 Called by: _QSF0KQC6T() (function in KBLOAD.SPR)
 Contains: VALIDOBJ() (Params: none)
 Called by: _QSF0KON7E() (function in QUAL.SPR)
 Called by: _QSF0KPT2I() (function in DD.SPR)
 Calls: ERRMSG.PRG
 Contains: QUALDEL() (Params: none)
 Called by: _QSF0KON7E() (function in QUAL.SPR)
 Called by: _QSF0KPT2I() (function in DD.SPR)
 Calls: POPUPSHOW() (function in KBINIT.PRG)
 Calls: POPUPHIDE() (function in KBINIT.PRG)
 Calls: SETQUALS (procedure in KB.SPR)

6. GOAL.SPR

Contains: _QSF0KOPCM() (Params: none)
 Called by: GOAL.SPR
 Calls: EDGOAL (procedure in KB.SPR)
 Contains: _QSF0KOPG7() (Params: none)
 Called by: GOAL.SPR
 Calls: EDGOAL (procedure in KB.SPR)
 Contains: _QSF0KOPTK() (Params: none)
 Called by: GOAL.SPR
 Calls: OBJECT.SPR
 Calls: SETGOALS (procedure in KB.SPR)
 Contains: _QSF0KOPXH() (Params: none)
 Called by: GOAL.SPR
 Calls: EDGOAL (procedure in KB.SPR)

7. DISPLAY.SPR

Contains: _QSF0KORJ1() (Params: none)
 Called by: DISPLAY.SPR
 Calls: EDDISPLAY (procedure in KB.SPR)
 Contains: _QSF0KORMJ() (Params: none)
 Called by: DISPLAY.SPR
 Calls: EDDISPLAY (procedure in KB.SPR)
 Contains: _QSF0KORZX() (Params: none)
 Called by: DISPLAY.SPR

Contains: _QSF0KOS30() (Params: none)
 Called by: DISPLAY.SPR
 Contains: _QSF0KOS6A() (Params: none)
 Called by: DISPLAY.SPR
 Calls: EDDISPLAY (procedure in KB.SPR)

8. DISEASE.SPR

Contains: _QSF0KOU0D() (Params: none)
 Called by: DISEASE.SPR
 Contains: _QSF0KOU3P() (Params: none)
 Called by: DISEASE.SPR
 Contains: _QSF0KOUIMI() (Params: none)
 Called by: DISEASE.SPR
 Contains: _QSF0KOUQK() (Params: none)
 Called by: DISEASE.SPR

9. ACTION.SPR

Contains: _QSF0KOX5V() (Params: none)
 Called by: ACTION.SPR
 Calls: EDACT (procedure in ACTION.SPR)
 Contains: _QSF0KOX9D() (Params: none)
 Called by: ACTION.SPR
 Calls: EDACT (procedure in ACTION.SPR)
 Contains: _QSF0KOXVA() (Params: none)
 Called by: ACTION.SPR
 Contains: _QSF0KOY50() (Params: none)
 Called by: ACTION.SPR
 Calls: EDACT (procedure in ACTION.SPR)
 Contains: _QSF0KOY8A() (Params: none)
 Called by: ACTION.SPR
 Calls: CLAUSE.SPR
 Calls: SETACT (procedure in KBEDIT.SPR)
 Contains: _QSF0KOYCP() (Params: none)
 Called by: ACTION.SPR
 Calls: EDACT (procedure in ACTION.SPR)
 Contains: EDACT (Params: none)
 Called by: _QSF0KOX5V() (function in ACTION.SPR)
 Called by: _QSF0KOX9D() (function in ACTION.SPR)
 Called by: _QSF0KOY50() (function in ACTION.SPR)
 Called by: _QSF0KOYCP() (function in ACTION.SPR)
 Calls: CLAUSE.SPR
 Calls: SETACT (procedure in KBEDIT.SPR)
 Contains: ADDNEWACT() (Params: none)
 Called by: ACTION.SPR
 Calls: CLAUSE.SPR
 Calls: SETACT (procedure in KBEDIT.SPR)

10. ACTELSE.SPR

Contains: _QSF0KP07D() (Params: none)
 Called by: ACTELSE.SPR
 Calls: EDELSE (procedure in ACTELSE.SPR)
 Contains: _QSF0KP0AR() (Params: none)
 Called by: ACTELSE.SPR
 Calls: EDELSE (procedure in ACTELSE.SPR)

Contains: `_QSF0KP0S3()` (Params: none)
 Called by: `ACTELSE.SPR`
 Contains: `_QSF0KP0W3()` (Params: none)
 Called by: `ACTELSE.SPR`
 Calls: `EDELSE` (procedure in `ACTELSE.SPR`)
 Contains: `_QSF0KP0YP()` (Params: none)
 Called by: `ACTELSE.SPR`
 Calls: `ADDNEWELSE()` (function in `ACTELSE.SPR`)
 Calls: `CLAUSE.SPR`
 Calls: `SETELSE` (procedure in `KBEDIT.SPR`)
 Contains: `_QSF0KP13M()` (Params: none)
 Called by: `ACTELSE.SPR`
 Calls: `EDELSE` (procedure in `ACTELSE.SPR`)
 Contains: `EDELSE` (Params: none)
 Called by: `_QSF0KP07D()` (function in `ACTELSE.SPR`)
 Called by: `_QSF0KP0AR()` (function in `ACTELSE.SPR`)
 Called by: `_QSF0KP0W3()` (function in `ACTELSE.SPR`)
 Called by: `_QSF0KP13M()` (function in `ACTELSE.SPR`)
 Calls: `CLAUSE.SPR`
 Calls: `SETELSE` (procedure in `KBEDIT.SPR`)
 Contains: `ADDELSE` (Params: none)
 Calls: `CLAUSE.SPR`
 Calls: `SETELSE` (procedure in `KBEDIT.SPR`)
 Contains: `ADDNEWELSE()` (Params: none)
 Called by: `ACTELSE.SPR`
 Called by: `_QSF0KP0YP()` (function in `ACTELSE.SPR`)
 Calls: `CLAUSE.SPR`
 Calls: `SETELSE` (procedure in `KBEDIT.SPR`)

11. CLAUSE.SPR

Contains: `_QSF0KP3SZ()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP3X2()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP435()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP472()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP5HS()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP5LZ()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP5Q1()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `_QSF0KP5UC()` (Params: none)
 Called by: `CLAUSE.SPR`
 Contains: `INSNEWID()` (Params: `MDATA, MITEM`)
 Called by: `CLAUSE.SPR`
 Calls: `DP.PRG`
 Contains: `SETOBJECT()` (Params: `M.OBJECT, MTYPE`)
 Called by: `CLAUSE.SPR`

12. RULE.SPR

Contains: `_QSF0KP97Y()` (Params: none)
 Called by: `RULE.SPR`

Contains: _QSF0KPA3B() (Params: none)
 Called by: RULE.SPR
 Contains: _QSF0KPA7J() (Params: none)
 Called by: RULE.SPR
 Calls: YESNO.PRG

13. TERM.SPR

Contains: _QSF0KPC3R() (Params: none)
 Called by: TERM.SPR
 Calls: EDPREM (procedure in TERM.SPR)
 Contains: _QSF0KPC6D() (Params: none)
 Called by: TERM.SPR
 Calls: EDPREM (procedure in TERM.SPR)
 Contains: _QSF0KPCPM() (Params: none)
 Called by: TERM.SPR
 Contains: _QSF0KPCU9() (Params: none)
 Called by: TERM.SPR
 Calls: SETJOIN() (function in TERM.SPR)
 Contains: _QSF0KPCWU() (Params: none)
 Called by: TERM.SPR
 Calls: SETJOIN() (function in TERM.SPR)
 Contains: _QSF0KPCZG() (Params: none)
 Called by: TERM.SPR
 Calls: EDPREM (procedure in TERM.SPR)
 Contains: _QSF0KPD1Z() (Params: none)
 Called by: TERM.SPR
 Calls: ADDFACT() (function in TERM.SPR)
 Contains: _QSF0KPD51() (Params: none)
 Called by: TERM.SPR
 Calls: EDPREM (procedure in TERM.SPR)
 Contains: EDPREM (Params: none)
 Called by: _QSF0KPC3R() (function in TERM.SPR)
 Called by: _QSF0KPC6D() (function in TERM.SPR)
 Called by: _QSF0KPCZG() (function in TERM.SPR)
 Called by: _QSF0KPD51() (function in TERM.SPR)
 Calls: CLAUSE.SPR
 Calls: SETPREM (procedure in KBEDIT.SPR)
 Contains: SETJOIN() (Params: JOINOP)
 Called by: _QSF0KPCU9() (function in TERM.SPR)
 Called by: _QSF0KPCWU() (function in TERM.SPR)
 Calls: SETPREM (procedure in KBEDIT.SPR)
 Contains: LASTFACT() (Params: none)
 Contains: ADDFACT() (Params: none)
 Called by: TERM.SPR
 Called by: _QSF0KPD1Z() (function in TERM.SPR)
 Calls: CLAUSE.SPR
 Calls: SETPREM (procedure in KBEDIT.SPR)

14. OBJECT.SPR

Contains: _QSF0KPF81() (Params: none)
 Called by: OBJECT.SPR
 Contains: _QSF0KPF88() (Params: none)
 Called by: OBJECT.SPR
 Calls: GETOBJ() (function in OBJECT.SPR)
 Contains: _QSF0KPFY8() (Params: none)

Called by: OBJECT.SPR
 Contains: _QSF0KPG47() (Params: none)
 Called by: OBJECT.SPR
 Calls: CREATARRAY() (function in OBJECT.SPR)
 Calls: SELITEM() (function in OBJECT.SPR)
 Contains: _QSF0KPG0J() (Params: none)
 Called by: OBJECT.SPR
 Contains: _QSF0KPGSR() (Params: none)
 Called by: OBJECT.SPR
 Calls: GETOBJ() (function in OBJECT.SPR)
 Contains: _QSF0KPGVZ() (Params: none)
 Called by: OBJECT.SPR
 Contains: _QSF0KPH17() (Params: none)
 Called by: OBJECT.SPR
 Calls: CREATARRAY() (function in OBJECT.SPR)
 Calls: SELITEM() (function in OBJECT.SPR)
 Contains: CREATARRAY() (Params: none)
 Called by: _QSF0KPG47() (function in OBJECT.SPR)
 Called by: _QSF0KPH17() (function in OBJECT.SPR)
 Called by: GETOBJ() (function in OBJECT.SPR)
 Contains: DATAINPUT() (Params: none)
 Calls: DISEASE.SPR
 Calls: DICT.SPR
 Contains: GETOBJ() (Params: M.NAME)
 Called by: _QSF0KPFV8() (function in OBJECT.SPR)
 Called by: _QSF0KPGSR() (function in OBJECT.SPR)
 Calls: CREATARRAY() (function in OBJECT.SPR)
 Calls: SELITEM() (function in OBJECT.SPR)
 Contains: SELITEM() (Params: none)
 Called by: _QSF0KPG47() (function in OBJECT.SPR)
 Called by: _QSF0KPH17() (function in OBJECT.SPR)
 Called by: GETOBJ() (function in OBJECT.SPR)
 Calls: OBLIST.SPR
 Calls: DISEASE.SPR
 Calls: DICT.SPR

15. ENUM.SPR

Contains: _QSF0KPJAM() (Params: none)
 Called by: ENUM.SPR
 Contains: _QSF0KPJF7() (Params: none)
 Called by: ENUM.SPR
 Contains: _QSF0KPJJK() (Params: none)
 Called by: ENUM.SPR
 Contains: _QSF0KPJYY() (Params: none)
 Called by: ENUM.SPR
 Contains: _QSF0KPK3S() (Params: none)
 Called by: ENUM.SPR
 Contains: _QSF0KPK8E() (Params: none)
 Called by: ENUM.SPR

16. RESTORE.SPR

Contains: _QSF0KMPZ() (Params: none)
 Called by: RESTORE.SPR
 Contains: _QSF0KPMS0() (Params: none)
 Called by: RESTORE.SPR

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        Calls: YESNO.PRG
        Calls: NEWPATHPOP (procedure in BACKUP.SPR)
        Calls: NEWFILEPOP (procedure in BACKUP.SPR)
Contains: _QSF0KPMXI() (Params: none)
    Called by: RESTORE.SPR
        Calls: PATHSTRING (procedure in BACKUP.SPR)
        Calls: NEWPATHPOP (procedure in BACKUP.SPR)
        Calls: NEWFILEPOP (procedure in BACKUP.SPR)
Contains: _QSF0KPN0J() (Params: none)
    Called by: RESTORE.SPR
        Calls: PKUNZIP (procedure in RESTORE.SPR)
Contains: _QSF0KPN3T() (Params: none)
    Called by: RESTORE.SPR
        Calls: NEWPATHPOP (procedure in BACKUP.SPR)
        Calls: NEWFILEPOP (procedure in BACKUP.SPR)
Contains: _QSF0KPN7E() (Params: none)
    Called by: RESTORE.SPR
Contains: _QSF0KPNY5() (Params: none)
    Called by: RESTORE.SPR
Contains: _QSF0KPO0A() (Params: none)
    Called by: RESTORE.SPR
        Calls: YESNO.PRG
        Calls: NEWPATHPOP (procedure in BACKUP.SPR)
        Calls: NEWFILEPOP (procedure in BACKUP.SPR)
Contains: _QSF0KPO5T() (Params: none)
    Called by: RESTORE.SPR
        Calls: PATHSTRING (procedure in BACKUP.SPR)
        Calls: NEWPATHPOP (procedure in BACKUP.SPR)
        Calls: NEWFILEPOP (procedure in BACKUP.SPR)
Contains: _QSF0KPO8T() (Params: none)
    Called by: RESTORE.SPR
        Calls: PKUNZIP (procedure in RESTORE.SPR)
Contains: _QSF0KPOBY() (Params: none)
    Called by: RESTORE.SPR
        Calls: NEWPATHPOP (procedure in BACKUP.SPR)
        Calls: NEWFILEPOP (procedure in BACKUP.SPR)
Contains: _QSF0KPOFG() (Params: none)
    Called by: RESTORE.SPR
Contains: NEWDRIVEPOP (Params: none)
    Called by: BACKUP.SPR
    Called by: RESTORE.SPR
Contains: NEWPATHPOP (Params: none)
    Called by: BACKUP.SPR
    Called by: RESTORE.SPR
    Called by: _QSF0KO98Q() (function in BACKUP.SPR)
    Called by: _QSF0KO9EC() (function in BACKUP.SPR)
    Called by: _QSF0KO9LV() (function in BACKUP.SPR)
    Called by: _QSF0KOAID() (function in BACKUP.SPR)
    Called by: _QSF0KOANU() (function in BACKUP.SPR)
    Called by: _QSF0KOAUY() (function in BACKUP.SPR)
    Called by: _QSF0KPM50() (function in RESTORE.SPR)
    Called by: _QSF0KPMXI() (function in RESTORE.SPR)
    Called by: _QSF0KPN3T() (function in RESTORE.SPR)
    Called by: _QSF0KPO0A() (function in RESTORE.SPR)
    Called by: _QSF0KPO5T() (function in RESTORE.SPR)
    Called by: _QSF0KPOBY() (function in RESTORE.SPR)
Contains: NEWFILEPOP (Params: none)

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Called by: BACKUP.SPR
 Called by: RESTORE.SPR
 Called by: _QSF0KO98Q() (function in BACKUP.SPR)
 Called by: _QSF0KO9EC() (function in BACKUP.SPR)
 Called by: _QSF0KO9LV() (function in BACKUP.SPR)
 Called by: _QSF0KOAID() (function in BACKUP.SPR)
 Called by: _QSF0KOANU() (function in BACKUP.SPR)
 Called by: _QSF0KOAUY() (function in BACKUP.SPR)
 Called by: _QSF0KPMS0() (function in RESTORE.SPR)
 Called by: _QSF0KPMXI() (function in RESTORE.SPR)
 Called by: _QSF0KPN3T() (function in RESTORE.SPR)
 Called by: _QSF0KPO0A() (function in RESTORE.SPR)
 Called by: _QSF0KPO5T() (function in RESTORE.SPR)
 Called by: _QSF0KPOBY() (function in RESTORE.SPR)
 Contains: PATHSTRING (Params: none)
 Called by: _QSF0KO9EC() (function in BACKUP.SPR)
 Called by: _QSF0KOANU() (function in BACKUP.SPR)
 Called by: PKZIP (procedure in BACKUP.SPR)
 Called by: _QSF0KPMXI() (function in RESTORE.SPR)
 Called by: _QSF0KPO5T() (function in RESTORE.SPR)
 Called by: PKUNZIP (procedure in RESTORE.SPR)
 Contains: PKUNZIP (Params: none)
 Called by: _QSF0KPN0J() (function in RESTORE.SPR)
 Called by: _QSF0KPO8T() (function in RESTORE.SPR)
 Calls: PATHSTRING (procedure in BACKUP.SPR)

17. DD.SPR

Contains: VALIDOBJ() (Params: none)
 Called by: _QSF0KON7E() (function in QUAL.SPR)
 Called by: _QSF0KPT2I() (function in DD.SPR)
 Calls: ERRMSG.PRG
 Contains: QUALDEL() (Params: none)
 Called by: _QSF0KON7E() (function in QUAL.SPR)
 Called by: _QSF0KPT2I() (function in DD.SPR)
 Calls: POPUPSHOW() (function in KBINIT.PRG)
 Calls: POPUPHIDE() (function in KBINIT.PRG)
 Calls: SETQUALS (procedure in KB.SPR)
 Contains: RESETDATA() (Params: none)
 Called by: _QSF0KPT2I() (function in DD.SPR)
 Contains: _QSF0KPT2I() (Params: none)
 Called by: DD.SPR
 Calls: DDEDIT.SPR
 Calls: VALIDOBJ() (function in QUAL.SPR)
 Calls: QUALDEL() (function in QUAL.SPR)
 Calls: RESETDATA() (function in DD.SPR)
 Contains: _QSF0KPT7D() (Params: none)
 Called by: DD.SPR
 Calls: DDEDIT.SPR

18. PLAN.SPR

Contains: _QSF0KPV8R() (Params: none)
 Called by: PLAN.SPR
 Calls: OBJECT.SPR
 Calls: SETGOALS (procedure in KB.SPR)

Contains: _QSF0KPVCR() (Params: none)
 Called by: PLAN.SPR
 Calls: EDGOAL (procedure in KB.SPR)
 Contains: _QSF0KPVQB() (Params: none)
 Called by: PLAN.SPR
 Calls: OBJECT.SPR
 Calls: SETGOALS (procedure in KB.SPR)
 Contains: _QSF0KPVW8() (Params: none)
 Called by: PLAN.SPR
 Calls: EDGOAL (procedure in KB.SPR)

19. DICT.SPR

Contains: EDENUM (Params: none)
 Called by: _QSF0KPY8W() (function in DICT.SPR)
 Called by: _QSF0KQ6T0() (function in DEDIT.SPR)
 Calls: ENUM.SPR
 Calls: SETENUM (procedure in DICT.SPR)
 Calls: DDENUM.SPR
 Contains: SETENUM (Params: none)
 Called by: DICT.SPR
 Called by: DEDIT.SPR
 Called by: EDENUM (procedure in DICT.SPR)
 Called by: _QSF0KQ6M1() (function in DEDIT.SPR)
 Contains: SETVAL (Params: none)
 Called by: _QSF0KQ6M1() (function in DEDIT.SPR)
 Contains: _QSF0KPY4X() (Params: none)
 Called by: DICT.SPR
 Contains: _QSF0KPY8W() (Params: none)
 Called by: DICT.SPR
 Calls: EDENUM (procedure in DICT.SPR)
 Contains: _QSF0KPYF6() (Params: none)
 Called by: DICT.SPR
 Contains: _QSF0KPYJ0() (Params: none)
 Called by: DICT.SPR

20. KBEDIT.SPR

Contains: SETPREM (Params: none)
 Called by: KBEDIT.SPR
 Called by: _QSF0KOH4Z() (function in KB.SPR)
 Called by: ADDFACT() (function in TERM.SPR)
 Called by: EDPREM (procedure in TERM.SPR)
 Called by: SETJOIN() (function in TERM.SPR)
 Called by: _QSF0KQ0SA() (function in KBEDIT.SPR)
 Called by: _QSF0KQ14Z() (function in KBEDIT.SPR)
 Calls: SEMPTY() (function in KBEDIT.SPR)
 Calls: HLINK() (function in KBEDIT.SPR)
 Calls: VLINK() (function in KBEDIT.SPR)
 Contains: VLINK() (Params: FROM, TO)
 Called by: SETPREM (procedure in KBEDIT.SPR)
 Contains: HLINK() (Params: S)
 Called by: SETPREM (procedure in KBEDIT.SPR)
 Contains: PUSH() (Params: N)
 Contains: POP() (Params: none)
 Contains: SEMPTY() (Params: none)
 Called by: SETPREM (procedure in KBEDIT.SPR)

Contains: SETACT (Params: none)
 Called by: KBEDIT.SPR
 Called by: _QSF0KOH4Z() (function in KB.SPR)
 Called by: ADDNEWACT() (function in ACTION.SPR)
 Called by: _QSF0KOY8A() (function in ACTION.SPR)
 Called by: EDACT (procedure in ACTION.SPR)
 Called by: _QSF0KQ14Z() (function in KBEDIT.SPR)
 Contains: SETELSE (Params: none)
 Called by: KBEDIT.SPR
 Called by: ADDNEWELSE() (function in ACTELSE.SPR)
 Called by: _QSF0KPOYP() (function in ACTELSE.SPR)
 Called by: EDELSE (procedure in ACTELSE.SPR)
 Called by: ADDELSE (procedure in ACTELSE.SPR)
 Called by: _QSF0KQ10R() (function in KBEDIT.SPR)
 Called by: _QSF0KQ14Z() (function in KBEDIT.SPR)
 Contains: SETACTION() (Params: none)
 Called by: KBEDIT.SPR
 Called by: _QSF0KQ14Z() (function in KBEDIT.SPR)
 Contains: _QSF0KQ0SA() (Params: none)
 Called by: KBEDIT.SPR
 Calls: TERM.SPR
 Calls: SETPREM (procedure in KBEDIT.SPR)
 Contains: _QSF0KQ0WK() (Params: none)
 Called by: KBEDIT.SPR
 Calls: ACTION.SPR
 Contains: _QSF0KQ10R() (Params: none)
 Called by: KBEDIT.SPR
 Calls: ACTELSE.SPR
 Calls: SETELSE (procedure in KBEDIT.SPR)
 Contains: _QSF0KQ14Z() (Params: none)
 Called by: KBEDIT.SPR
 Calls: RULE.SPR
 Calls: SETACT (procedure in KBEDIT.SPR)
 Calls: SETPREM (procedure in KBEDIT.SPR)
 Calls: SETELSE (procedure in KBEDIT.SPR)
 Calls: SETACTION() (function in KBEDIT.SPR)

21. OBLIST.SPR

Contains: _QSF0KQ4M3() (Params: none)
 Called by: OBLIST.SPR

22. DDEDIT.SPR

Contains: SETRULES() (Params: none)
 Called by: DDEDIT.SPR
 Calls: AREANAME() (function in DDEDIT.SPR)
 Contains: EDENUM (Params: none)
 Called by: _QSF0KPY8W() (function in DICT.SPR)
 Called by: _QSF0KQ6T0() (function in DDEDIT.SPR)
 Calls: ENUM.SPR
 Calls: SETENUM (procedure in DICT.SPR)
 Calls: DDENUM.SPR
 Contains: SETENUM (Params: none)
 Called by: DICT.SPR
 Called by: DDEDIT.SPR
 Called by: EDENUM (procedure in DICT.SPR)

Called by: _QSF0KQ6M1() (function in DDEDIT.SPR)
 Contains: SETVAL (Params: none)
 Called by: _QSF0KQ6M1() (function in DDEDIT.SPR)
 Contains: CLEANENUM() (Params: none)
 Called by: _QSF0KQ6YY() (function in DDEDIT.SPR)
 Contains: AREANAME() (Params: MID)
 Called by: SETRULES() (function in DDEDIT.SPR)
 Contains: _QSF0KQ6M1() (Params: none)
 Called by: DDEDIT.SPR
 Calls: SETVAL (procedure in DICT.SPR)
 Calls: SETENUM (procedure in DICT.SPR)
 Calls: DDENUM.SPR
 Contains: _QSF0KQ6T0() (Params: none)
 Called by: DDEDIT.SPR
 Calls: EDENUM (procedure in DICT.SPR)
 Contains: _QSF0KQ6YY() (Params: none)
 Called by: DDEDIT.SPR
 Calls: CLEANENUM() (function in DDEDIT.SPR)
 Contains: _QSF0KQ74F() (Params: none)
 Called by: DDEDIT.SPR

23. DDENUM.SPR

Contains: _QSF0KQ9MB() (Params: none)
 Called by: DDENUM.SPR
 Contains: _QSF0KQ9QC() (Params: none)
 Called by: DDENUM.SPR

24. BACKUP.SPR

Contains: _QSF0KO96C() (Params: none)
 Called by: BACKUP.SPR
 Contains: _QSF0KO98Q() (Params: none)
 Called by: BACKUP.SPR
 Calls: YESNO.PRG
 Calls: NEWPATHPOP (procedure in BACKUP.SPR)
 Calls: NEWFILEPOP (procedure in BACKUP.SPR)
 Contains: _QSF0KO9EC() (Params: none)
 Called by: BACKUP.SPR
 Calls: PATHSTRING (procedure in BACKUP.SPR)
 Calls: NEWPATHPOP (procedure in BACKUP.SPR)
 Calls: NEWFILEPOP (procedure in BACKUP.SPR)
 Contains: _QSF0KO9HK() (Params: none)
 Called by: BACKUP.SPR
 Calls: YESNO.PRG
 Calls: PKZIP (procedure in BACKUP.SPR)
 Contains: _QSF0KO9LV() (Params: none)
 Called by: BACKUP.SPR
 Calls: NEWPATHPOP (procedure in BACKUP.SPR)
 Calls: NEWFILEPOP (procedure in BACKUP.SPR)
 Contains: _QSF0KOAG9() (Params: none)
 Called by: BACKUP.SPR
 Contains: _QSF0KOAID() (Params: none)
 Called by: BACKUP.SPR
 Calls: YESNO.PRG
 Calls: NEWPATHPOP (procedure in BACKUP.SPR)
 Calls: NEWFILEPOP (procedure in BACKUP.SPR)

Contains: _QSF0KOANU()	(Params: none)
Called by: BACKUP.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAQV()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: PKZIP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAUY()	(Params: none)
Called by: BACKUP.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: NEWDRIVEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Contains: NEWPATHPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QS*	(function in BACKUP.SPR)
Contains: NEWFILEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KOAUY()	(function in BACKUP.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: PATHSTRING	(Params: none)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KOANU()	(function in BACKUP.SPR)
Called by: PKZIP	(procedure in BACKUP.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: PKUNZIP	(procedure RESTORE.SPR)
Contains: PKZIP	(Params: none)
Called by: _QSF0KO9HK()	(function in BACKUP.SPR)
Called by: _QSF0KOAQV()	(function in BACKUP.SPR)
Calls: PATHSTRING	(procedure in BACKUP.SPR)

Section VII. Program Source Code

```

1: * *****
=> *****
2: *
3: * Procedure file: C:\AMD2\KBEDIT\WORK\KBINIT.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
7: *
8: * Last modified: 08/05/94 at 14:05:34
9: *
10: * Procs & Fncts: SETPATH()
11: * : MYHANDLER()
12: * : QUIT()
13: * : POPUPSHOW()
14: * : POPUPHIDE()
15: *
16: * Calls: SETPATH()
17: * : KBMENU.MPR
18: * : MYHANDLER()
19: *
20: * Documented 15:00:46 FoxDoc versio
21: * *****
22: *
23: * Initialize system init_app()
24: *
25: * *****
26: *
27: * CLOSE ALL
28: * CLEAR WINDOWS ALL
29: * PUBLIC m.pass,savetalk,savesc && Initialize public variables
30: * PUBLIC dropdead,mproc
31: * PUBLIC m.new, m.home, m.data
32: *
33: * IF SET('TALK') = 'ON' && TALK handled as a special case.
34: * SET TALK OFF && Turn TALK OFF
35: * savetalk = 'ON' && TALK was ON, save the setting
36: * ELSE && TALK is OFF
37: * savetalk = 'OFF' && TALK was OFF, save the setting
38: * ENDIF
39: *
40: * IF SET('ESCAPE') = 'ON' && ESCAPE handled as a special case.
41: * SET ESCAPE OFF && Turn ESCAPE OFF
42: * savesc = 'ON' && ESCAPE was ON, save the setting
43: * ELSE && ESCAPE is OFF
44: * savesc = 'OFF' && ESCAPE was OFF, save the setting
45: * ENDIF
46: *
47: * && End of init app()
48: * m.home = SYS(2005)
49: * m.data = GETENV("KBDATA")
50: * IF EMPTY(m.data)
51: * DO setpath WITH m.data
52: * ENDIF
53: * m.bak = m.data + "\bak\"
54: * m.new = m.data + "\new\"
55: *
56: * *****
57: * Backup request.
58: *
59: * *m.do = Yesno("Do you want to Backup database?", "YES", "NO")
60: * IF m.do

```

```

61: * do backup
62: *ENDIF
63: *
64: *setup help file
65: SET HELP TO kbhelp.dbf
66: ON KEY LABEL F1 HELP
67: *
68: *-----
69: * Install menu
70: *-----
71: dropdead = .F.
72: PUSH MENU _mysystem && HLL
73: DO kbmnu.mpr && Launch application menu
74: READ VALID myhandler()
75: *
76: *
77: POP MENU _mysystem && HLL
78: *-----
79: * Restore request.
80: *-----
81: CLEAR WINDOWS ALL
82: CLOSE DATABASES
83: SET TOPIC TO "restore"
84: *m.do = yesno("Do you want to Restore?", "YES", "NO")
85: *IF m.do
86: * do restore
87: *ENDIF
88: SET HELP TO
89: *
90: *****
91: => *
92: * DONE
93: *****
94: *
95: CLEAR WINDOWS ALL
96: CLOSE ALL
97: RETURN
98: *|*****
99: => *****
100: *| *****
101: *| Function: MYHANDLER
102: *|
103: *| Called by: KBINIT.PRG
104: *| *****
105: => *****
106: *| *****
107: *| FUNCTION myhandler
108: *| IF TYPE("dropdead") = "U"
109: *| dropdead = .F.
110: *| RETURN dropdead
111: *| *****
112: *|
113: *| * Quit the system
114: *|
115: *| *****
116: *| *****
117: => *****
118: *|
119: *| Function: _QUIT
120: *|
121: *| Called by: KBMENU.MPR

```



```

1:  * *****
=> * *****
2:  * Procedure file: C:\CAMD2\KBEDIT\WORK\YESNO.PRG
3:  * System: Knowledge Base Editor
4:  * Author: Hoa L. Ly
5:  * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
6:  *
=> 2
7:  * Last modified: 08/05/94 at 11:38:50
8:  * Set by: QSF0K098Q() (function in BACKUP.SPR)
9:  * : QSF0K09HK() (function in BACKUP.SPR)
10: * : QSF0K0AID() (function in BACKUP.SPR)
11: * : QSF0K0AQV() (function in BACKUP.SPR)
12: * : QSF0KPA7J() (function in RULE.SPR)
13: * : QSF0KPM50() (function in RESTORE.SPR)
14: * : QSF0KPO0A() (function in RESTORE.SPR)
15: * : CHECKFILE() (function in KBL0AD.SPR)
16: *
17: *
18: * Documented 15:00:47 FoxDoc versio
=> n 3.00a
19: * *****
20: * *****
21: * * 11/26/91 YESNO.PRG 02:50:49 *
22: * * *****
23: * * *****
24: * * *****
25: * * *****
26: * * Adam Green
27: * *
28: * * Copyright (c) 1991 Adam Green Seminars
29: * * One Faneuil Hall
30: * * Boston, MA 02174
31: * *
32: * * Description:
33: * * This program was automatically generated by GENSCRN.
34: * *
35: * * *****
36: * * *****
37: * * *****
38: * * *****
39: * * *****
40: * * YESNO Setup Code - SECTION 1
41: * * *****
42: * * *****
43: * * *****
44: * * *****
45: * * *****
46: * * *****
47: * * *****
48: * * *****
=> se
49: * IF PARAMETERS() = 0
50: * * Default to plain prompts
51: * m.message = ""
52: * ENDIF
53: *
54: * Ok and Cancel are used for prompts in the push buttons
55: * IF PARAMETERS() = 1
56: * * Default to normal prompts
57: * m.ok = "OK"
58: * m.cancel = "Cancel("
59: * ENDIF
60: *
61: * Truncate any message longer than 50 characters

```

```

62: *
63: *
64: * IF LEN( m.message ) > 129
65: * * The message is centered in an @SAY
66: * m.message = SUBSTR( m.message, 1, 129 )
67: * ENDIF
68: *
69: * PUSH KEY CLEAR
70: *
71: * #REGION 0
72: * REGIONAL m.currearea, m.talkstat, m.compstat
73: *
74: * IF SET("TALK") = "ON"
75: * SET TALK OFF
76: * m.talkstat = "ON"
77: * ELSE
78: * m.talkstat = "OFF"
79: * ENDIF
80: * m.compstat = SET("COMPATIBLE")
81: * SET COMPATIBLE FOXPLUS
82: * *****
83: * * Window definitions
84: * * *****
85: * * *****
86: * * *****
87: * * *****
88: * * *****
89: * * *****
90: * * *****
91: * * *****
92: * * *****
93: * * *****
94: * * *****
95: * * *****
96: * * *****
97: * * *****
98: * * *****
99: * * *****
100: * * *****
101: * * *****
102: * * *****
103: * * *****
104: * * *****
105: * * *****
106: * * *****
107: * * *****
108: * * *****
109: * * *****
110: * * *****
111: * * *****
112: * * *****
113: * * *****
114: * * *****
115: * * *****
116: * * *****
117: * * *****
118: * * *****
119: * * *****
120: * * *****
121: * * *****
122: * * *****
123: * * *****
124: * * *****
125: * * *****
126: * * *****
127: * * *****

```

```

128: READ CYCLE MODAL
129:
130: RELEASE WINDOW yesno
131:
132: #REGION 0
133: IF m.talkstat = "ON"
134: SET TALK ON
135: ENDIF
136: IF m.compstat = "ON"
137: SET COMPATIBLE ON
138: ENDIF
139:
140:
141: *****
142: *
143: * YESNO Cleanup Code
144: *
145: * *****
146: *
147: #REGION 1
148: POP KEY
149:
150:
151: * Convert the numeric value of m.answer from 1|2 to .T.|.F.
152: * If the user selected OK and didn't exit with Escape
153: IF m.answer = 1 AND LASTKEY() <> 27
154: RETURN .T.
155: ELSE
156: * Cancel or Escape returns false
157: RETURN .F.
158: ENDIF
159: *: EOF: YESNO.act

```

```

1:  *:*****
=> *****
2:  *:
3:  *: Procedure file: C:\CAMD2\KBEDIT\WORK\BACKUP.PRG
4:  *: System: Knowledge Base Editor
5:  *: Author: Hoa L. Ly
6:  *: Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7:  *: Last modified: 02/15/94 at 13:31:20
8:  *:
9:  *: Set by: KBMENU.MPR
10: *:
11: *: Calls: BACKUP.SPR
12: *:
13: *: Documented 15:00:47 FoxDoc versio
=> n 3,00a
14: *:*****
=> *****
15: *:-----
=> -----
16: * Backup data files
17: * Programmer: HLL
18: *:-----
=> -----
19: * PROCEDURE backup
20: PUBLIC mscreen
21: PRIVATE MESSAGE
22: SAVE SCREEN TO mscreen
23: MESSAGE = "Backup Knowledge Base database"
24: SET TOPIC TO "BACKUP"
25: DO backup.spr WITH MESSAGE
26: RESTORE SCREEN FROM mscreen
27: <-----RETURN
28:
29: *: EOF: BACKUP.act

```

```

08/09/94          KBMENU.MPR          09:38:40
Author's Name
Copyright (c) 1994 Company Name
Address
City,      Zip
Description:
This program was automatically generated by GENMENU.

```

```

Menu Definition

```

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: SET SYSTEM TO
27:
28: SET SYSTEM AUTOMATIC
29:
30: DEFINE PAD _qsf0k06j4 OF _msysmenu PROMPT "system" COLOR SCHEME 3
31: DEFINE PAD _qsf0k06je OF _msysmenu PROMPT "Knowledge Base" COLOR SCHE
=> ME 3
32: DEFINE PAD _qsf0k06jm OF _msysmenu PROMPT "Exit system" COLOR SCHEME
=> 3
33: ON PAD _qsf0k06j4 OF _msysmenu ACTIVATE POPUP SYSTEM
34: ON PAD _qsf0k06je OF _msysmenu ACTIVATE POPUP knowledgeb
35: ON SELECTION PAD _qsf0k06jm OF _msysmenu DO _quit
36:
37: DEFINE POPUP SYSTEM MARGIN RELATIVE_SHADOW COLOR SCHEME 4 F1"
38: DEFINE BAR _mst_help OF SYSTEM PROMPT "\<help
39: DEFINE BAR 2 OF SYSTEM PROMPT "\<
40: DEFINE BAR 3 OF SYSTEM PROMPT "\<Backup"
41: DEFINE BAR 4 OF SYSTEM PROMPT "\<Restore"
42: ON SELECTION BAR 3 OF SYSTEM DO backup
43: ON SELECTION BAR 4 OF SYSTEM DO RESTORE
44:
45: DEFINE POPUP knowledgeb MARGIN RELATIVE_SHADOW COLOR SCHEME 4
46: DEFINE BAR 1 OF knowledgeb PROMPT "Knowledge Base Area"
47: DEFINE BAR 2 OF knowledgeb PROMPT "question - Data Dictionary"
48: ON SELECTION BAR 1 OF knowledgeb DO Kb.spr
49: ON SELECTION BAR 2 OF knowledgeb DO dd.spr
50: *: EOF: KBMENU.ac2

```



```

178: L-ENDIF
179: READ CYCLE MODAL
180: RELEASE WINDOW w_backup
181: #REGION 0
182: SET readborder &rborder
183: IF m.talkstat = "ON"
184: SET TALK ON
185: ENDIF
186: IF m.compstat = "ON"
187: SET COMPATIBLE ON
188: ENDIF
189: *
190: *
191: *
192: *
193: *
194: *
195: *
196: *
197: *
198: *
199: *
200: *
201: *
202: *
203: *
204: *
205: *
206: *
207: *
208: *
209: *
210: *
211: *
212: *
213: *
214: *
215: *
216: *
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *

```

```

117: *
118: *
119: *
120: *
121: *
122: *
123: *
124: *
125: *
126: *
127: *
128: *
129: *
130: *
131: *
132: *
133: *
134: *
135: *
136: *
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156: *
157: *
158: *
159: *
160: *
161: *
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: *
172: *
173: *
174: *
175: *
176: *
177: *

```

```

233: OTHERWISE = filename
234:   mfname = filename
235: END CASE
236:
237: #REGION 0
238: REGIONAL m.currearea, m.talkstat, m.compstat
239:
240: IF SET("TALK") = "ON"
241:   SET TALK OFF
242:   m.talkstat = "ON"
243: ELSE
244:   m.talkstat = "OFF"
245: ENDIF
246:
247: m.compstat = SET("COMPATIBLE")
248: SET COMPATIBLE FOXPLUS
249:
250: *
251: *
252: * MS-DOS Window definitions
253: *
254: *
255: *
256: *
257: IF NOT WEXIST("w_backup") ;
258:   OR UPPER(WTITLE("w_backup")) == "w_backup.plx" ;
259:   OR UPPER(WTITLE("w_backup")) == "w_backup.scx" ;
260:   OR UPPER(WTITLE("w_backup")) == "w_backup.mnx" ;
261:   OR UPPER(WTITLE("w_backup")) == "w_backup.prg" ;
262:   OR UPPER(WTITLE("w_backup")) == "w_backup.frx" ;
263:   OR UPPER(WTITLE("w_backup")) == "w_backup.qpr" ;
264:   DEFINE WINDOW w_backup ;
265:     FROM INT((SROW()-18)/2), INT((SCOL()-61)/2) ;
266:     TO INT((SROW()-18)/2)+17, INT((SCOL()-61)/2)+60 ;
267:     NOFLOAT ;
268:     NOCLOSE ;
269:     SHADOW ;
270:     NOMINIMIZE ;
271:     DOUBLE ;
272:     COLOR SCHEME 5
273: ENDIF
274:
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: OTHERWISE = filename
290:   mfname = filename
291: END CASE
292:
293: #REGION 0
294: REGIONAL m.currearea, m.talkstat, m.compstat
295:
296: IF SET("TALK") = "ON"
297:   SET TALK OFF
298:   m.talkstat = "ON"
299: ELSE
300:   m.talkstat = "OFF"
301: ENDIF
302:
303: m.compstat = SET("COMPATIBLE")
304: SET COMPATIBLE FOXPLUS
305:
306: *
307: *
308: * MS-DOS Window definitions
309: *
310: *
311: *
312: *
313: IF NOT WEXIST("w_backup") ;
314:   OR UPPER(WTITLE("w_backup")) == "w_backup.plx" ;
315:   OR UPPER(WTITLE("w_backup")) == "w_backup.scx" ;
316:   OR UPPER(WTITLE("w_backup")) == "w_backup.mnx" ;
317:   OR UPPER(WTITLE("w_backup")) == "w_backup.prg" ;
318:   OR UPPER(WTITLE("w_backup")) == "w_backup.frx" ;
319:   OR UPPER(WTITLE("w_backup")) == "w_backup.qpr" ;
320:   DEFINE WINDOW w_backup NOSHOW
321:     FROM INT((SROW()-18)/2), INT((SCOL()-61)/2) ;
322:     TO INT((SROW()-18)/2)+17, INT((SCOL()-61)/2)+60 ;
323:     NOFLOAT ;
324:     NOCLOSE ;
325:     SHADOW ;
326:     NOMINIMIZE ;
327:     DOUBLE ;
328:     COLOR SCHEME 5, 6
329: ENDIF
330:
331: *
332: *
333: *
334: *
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336: *
337: *
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```

```

350: SIZE 11,26 ;
351: DEFAULT 1 ;
352: VALID _qsfk0koauy() ;
353: COLOR SCHEME 6
354: @ 14,1 SAY "Backup file name: " ;
355: SIZE 1,18,0
356: @ 14,19 GET mfname ;
357: SIZE 1,39 ;
358: DEFAULT " "
359:
360: [IF NOT WVISIBLE("w_backup")
361:   ACTIVATE WINDOW w_backup
362: ]ENDIF
363: READ CYCLE MODAL
364: RELEASE WINDOW w_backup
365:
366: #REGION 0
367: [IF m.talkstat = "ON"
368:   SET TALK ON
369: ]ENDIF
370: [IF m.compstat = "ON"
371:   SET COMPATIBLE ON
372: ]ENDIF
373:
374: *
375: *
376: *
377: *
=> ||
378: *
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```

```

411: #REGION 1
412: m.prevdrive = mdrive
413: *
414: *
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475: *

```

```

411: #REGION 1
412: m.prevdrive = mdrive
413: *
414: *
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```

```

411: #REGION 1
412: m.prevdrive = mdrive
413: *
414: *
415: *
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```

Function Origin:	mdrive VALID	Record Number:	3
From Platform:	Windows		
From Screen:	BACKUP,		
Variable:	mdrive		
Called By:	VALID Clause		
Object Type:	Popup		
Snippet Number:	2		

Function Origin:	mpath VALID	Record Number:	6
From Platform:	Windows		
From Screen:	BACKUP,		
Variable:	mpath		
Called By:	VALID Clause		
Object Type:	Popup		
Snippet Number:	3		

Function Origin:	mdrive WHEN	Record Number:	3
From Platform:	Windows		
From Screen:	BACKUP,		
Variable:	mdrive		
Called By:	WHEN Clause		
Object Type:	Popup		
Snippet Number:	1		

```

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```

FUNCTION _qsfoK09HK
  maction VALID
  Function Origin:
  From Platform: Windows
  From Screen: BACKUP,
  Variable: maction
  Called By: VALID Clause
  Object Type: Push Button
  Snippet Number: 4
  Record Number: 7

```

```

FUNCTION _qsfoK09HK && maction VALID
DO CASE
CASE maction = 1
  pkzip = .T.
  IF FILE(mfname)
  mdel = yesno( mfname + " already exists, overwrite it? ", "Yes"
=> , "Cancel")
  IF mdel
  DELETE FILE &mfname
  ELSE
  pkzip = .F.
  ENDIF
ENDIF
IF pkzip
DO pkzip
ENDIF
OTHERWISE
ENDCASE

```

```

FUNCTION _qsfoK09LV
  mfile VALID
  Function Origin:
  From Platform: Windows
  From Screen: BACKUP,
  Variable: mfile
  Called By: VALID Clause
  Object Type: List
  Snippet Number: 5
  Record Number: 8

```

```

FUNCTION _qsfoK09LV && mfile VALID
#REGION 1
mnewfile = filearray[mfile,1]
IF "% $ mnewfile
  mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
DO newpathpop
DO newfilepop
SHOW GETS
ELSE
  mfname = mnewfile
  SHOW GETS
ENDIF

```

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```

FUNCTION _qsfoK0AG9
  mdrive WHEN
  Function Origin:
  From Platform: MS-DOS
  From Screen: BACKUP,
  Variable: mdrive
  Called By: WHEN Clause
  Object Type: Popup
  Snippet Number: 6
  Record Number: 14

```

```

FUNCTION _qsfoK0AG9 && mdrive WHEN
#REGION 1
m.prevdribe = mdrive

```

```

FUNCTION _qsfoK0AID
  mdrive VALID
  Function Origin:
  From Platform: MS-DOS
  From Screen: BACKUP,
  Variable: mdrive
  Called By: VALID Clause
  Object Type: Popup
  Snippet Number: 7
  Record Number: 14

```

```

*Switch to the selected drive
FUNCTION _qsfoK0aoid && mdrive VALID
#REGION 1
PRIVATE newdrive,mready
*Convert the popup bar number into the matching drive name
m.newdrive = drivearray[mdrive]
IF UPPER(m.newdrive) $ "A:B:"
  mready = yesno("Please insert disk into drive " + m.newdrive, "rea
=> dy", "cancel")
ELSE
  mready = .T.
ENDIF
IF mready
  *Go there and reset all the other popups to match
  SET DEFAULT TO (m.newdrive)
  DO newpathpop
  DO newfilepop
ELSE
  mdrive = m.prevdribe
  m.newdrive = drivearray[mdrive]
ENDIF
SHOW GETS

```

```

FUNCTION _qsfoK0ANU
  mpath VALID
  Function Origin:
  From Platform: MS-DOS
  From Screen: BACKUP,
  Record Number: 17

```

Variable: mpath
Called By: VALID Clause
Object Type: Popup
Snippet Number: 8

FUNCTION _qsfokoauv && mpath VALID

#REGION 1
m.newdefault = pathstring()
SET DEFAULT TO (m.newdefault)
DO newpathpop
DO newfilepop
SHOW GETS

_QSFOKOAQV maction VALID
Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Variable: maction Record Number: 18
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 9

FUNCTION _qsfokoavv && maction VALID

#REGION 1
DO CASE
CASE maction = 1

pkzip = .T.
IF FILE(mfname)
mdel = yesno(mfname + " already exists, overwrite it?", "Yes"
=> "Cancel")
IF mdel
ELSE DELETE FILE &mfname
pkzip = .F.
ENDIF
ENDIF
IF pkzip
DO pkzip
ENDIF
OTHERWISE
ENDCASE

_QSFOKOAUY mfile VALID
Function Origin:
From Platform: MS-DOS
From Screen: BACKUP,
Variable: mfile Record Number: 19
Called By: VALID Clause
Object Type: List
Snippet Number: 10

FUNCTION _qsfokoavv && mfile VALID
#REGION 1
mnewfile = filearray(mfile,1)
IF "% \$ mnewfile
mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
SET DEFA TO (mnewpath)
DO newpathpop
DO newfilepop
SHOW GETS
ELSE
mfname = mnewfile
SHOW GETS
ENDIF

BACKUP/MS-DOS Supporting Procedures and Functions

BACKUP Procedure NEWDRIVEPOP

PROCEDURE newdrivepop

DO CASE

CASE DOS

* Create a popup with each of the legal drive names
* The popup will be based on an array of the drive names
PRIVATE olddefault, olderror, drivename, ERROR

* We will change drives, so remember where we started
m.olddefault = SET("DEFAULT")

* To test for legal drives this program SET DEFAULT TO each drive
* If no error occurs the drive name will be added to an array

* Create the error trap
m.olderror = ON("ERROR")
m.error = .F.
ON ERROR m.error = .T.

* Create the array of legal drive names
DECLARE drivearray[1]
drivearray[1] = ""

* Loop from A to Z
m.drivename = "A"
FOR i = 1 TO 26

* Try to switch to the drive
SET DEFAULT TO (m.drivename)

* If it worked
IF NOT m.error

* Add the name to the last element in the array

```

803:
804:
805:
806:
807:
808:
809:
810:
811:
812:
813:
814:
815:
816:
817:
818:
819:
820:
821:
822:
823:
824:
825:
826:
827:
828:
829:
830:
831:
832:
833:
834:
835:
836:
837:
838:
839:
840:
841:
842:
843:
844:
845:
846:
847:
848:
849:
850:
851:
852:
853:
854:
855:
856:
857:
858:
859:
860:
861:
862:
863:
864:
865:
866:
867:
868:

```

```

* Add the name to the last element in the array
drivearray[ ALEN( DriveArray ) ] = m.drivename + ":"
* Add another element at the end of the array
DECLARE drivearray[ ALEN( DriveArray ) + 1 ]
ENDIF
* Change to the next letter in the alphabet
m.drivename = CHR( ASC( m.drivename ) + 1 )
* Reset the error trap
m.error = .F.
NEXT
* If the first element is empty, no drives were found
IF EMPTY( drivearray[ 1 ] )
SHOW GET mdrive disabled
ELSE
* Drives were found so cut off the last empty element
* added to the array in the loop
DECLARE drivearray[ ALEN( DriveArray ) - 1 ]
ENDIF
* Reset the error trap and return to home
ON ERROR &olderror
SET DEFAULT TO ( m.olddefault )
* Initialize the popup variable to the element in the
* drive array which contains the current drive
mdrive = ASCAN( drivearray, m.olddefault )
RETURN
*****
CASE WINDOWS
*****
* Create a popup with each of the legal drive names
* The popup will be based on an array of the drive names
PRIVATE olddefault, olderror, drivename, ERROR
* We will change drives, so remember where we started
m.olddefault = SET( "DEFAULT" )
* To test for legal drives this program SET DEFAULT TO each drive
* If no error occurs the drive name will be added to an array
* Create the error trap
m.olderror = ON( "ERROR" )
m.error = .F.
ON ERROR m.error = .T.
* Create the array of legal drive names
DECLARE drivearray[ 3 ]
drivearray[ 1 ] = "A"
drivearray[ 2 ] = "B"
drivearray[ 3 ] = ""
* Loop from C to Z
m.drivename = "C"
FOR i = 3 TO 26
* Try to switch to the drive
SET DEFAULT TO ( m.drivename )
* If it worked
IF NOT m.error

```

BACKUP Procedure NEWPATHPOP

```

869: m.dircount = 1
870:
871: * Continue as long as there is a pair of slashes
872: * Surrounding the next part of the string
873: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
874:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0
875:
876: * Add another element at the end of the array
877: DECLARE patharray[ m.dircount + 1 ]
878:
879: * Cut out the next set of characters between the slashes
880: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
881:
882: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
883:   - m.firstchar
884:
885: * And add them to the next array element
886: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
887:   m.firstchar, m.pathlength )
888:
889: * Look for the next directory name in the path string
890: m.dircount = m.dircount + 1
891:
892: ENDDO
893: ENDIF
894:
895: * Point the popup variable at the last element in the array
896: mpath = ALEN( patharray )
897: RETURN
898:
899: *****
900: CASE WINDOWS
901: *****
902: * Create a popup with one bar for each subdirectory
903: * in the current path
904: PRIVATE dirstring, dircount
905:
906: * Base the popup on an array with one element for
907: * each subdirectory in the current path
908:
909: * Start the array with the current drive
910: DECLARE patharray[ 1 ]
911: patharray[ 1 ] = SET( "DEFAULT" )
912:
913: * Get the current path string
914: m.dirstring = CURDIR( )
915:
916: * If we are not in the root directory
917: IF LEN( m.dirstring ) > 1
918:
919: * Start parsing the path string for each directory name
920: m.dircount = 1
921:
922: * Continue as long as there is a pair of slashes
923: * Surrounding the next part of the string
924: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
925:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0
926:
927: * Add another element at the end of the array
928: DECLARE patharray[ m.dircount + 1 ]
929:
930: * Cut out the next set of characters between the slashes
931: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
932:
933: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
934:   - m.firstchar

```

```

935:
936: * And add them to the next array element
937: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
938:   m.firstchar, m.pathlength )
939:
940: * Look for the next directory name in the path string
941: m.dircount = m.dircount + 1
942:
943: ENDDO
944: ENDIF
945:
946: * Point the popup variable at the last element in the array
947: mpath = ALEN( patharray )
948: RETURN
949:
950: *****
951: ENDCASE
952:
953: *
954: *
955: *
956: *
957: *
958: *
959: *
960:
961: PROCEDURE newfilepop
962: DO CASE
963: CASE DOS
964: *****
965:
966: * Create a popup with all of the file names and its subdirection i
967: => n the
968: * This will be based on an array as well
969:
970: * Create an array with all the files matching the current wild car
971:
972: * ADIR( ) creates an array with 5 columns.
973: PRIVATE startsort
974: * Fill an array with directory names only
975: =ADIR( dirarray, "", "b" )
976: SIZE = ALEN( dirarray, 1 )
977: IF dirarray[ 1, 1 ] = ". "
978:   =ADEL( dirarray, 1 )
979:   SIZE = SIZE - 1
980: DECLARE dirarray[ size, 5 ]
981:
982: * We must be in the root directory "\ "
983: * Add one more row to the directory array
984: SIZE = SIZE + 1
985: DECLARE dirarray[ SIZE, 5 ]
986:
987: * Push all the rows down by one
988: =AINS( dirarray, 1 )
989:
990: * Fill in the first directory name in the array
991: * a bug in the popups makes it refuse to display a
992: * prompt of "\ " use "\\ " to make one \ appear
993: * even then the bar will automatically be non-selectable
994: * which in this case is fine
995: dirarray[ 1, 1 ] = "\\ "
996:
997: * Start the sort after the root name
998:
999: ENDF

```

BACKUP Procedure NEWFILEPOP


```

999: IF ALEN( dirarray, 1 ) > 2
1000:
1001: * Sort the array starting at the starting row
1002: =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1003:
1004: ENDIF
1005: FOR i = 1 TO ALEN( dirarray, 1 )
1006:   dirarray[i,1] = "[" + dirarray[i,1] + "]"
1007: ENDFOR
1008:
1009: IF ADIR( filearray, m.wildcard ) = 0
1010:   SIZE = ALEN( dirarray, 1 )
1011:   DECLARE filearray[ size, 5 ]
1012:   =ACOPY( dirarray, filearray )
1013: ELSE
1014:   stop = ALEN( dirarray, 1 )
1015:   FOR i = 1 TO stop
1016:     SIZE = ALEN( filearray, 1 )
1017:     DECLARE filearray[ size + 1, 5 ]
1018:     =AINS( filearray, 1 )
1019:     filearray[1,1] = dirarray( alen( dirarray, 1 ), 1 )
1020:     IF ALEN( dirarray, 1 ) > 1
1021:       DECLARE dirarray( alen( dirarray, 1 ) - 1, 5 )
1022:     ENDIF
1023:   ENDIF
1024:   mfile = 1
1025:   RETURN
1026: *****
1027: CASE WINDOWS
1028: *****
1029: *****
1030: *****
1031: * Create a popup with all of the file names and its subdirection i
=> n
1032: the current directory
1033: * This will be based on an array as well
1034:
1035: * Create an array with all the files matching the current wild car
=> d
1036:
1037: * ADIR() creates an array with 5 columns.
1038:
1039: PRIVATE startsort
1040: * Fill an array with directory names only
1041: =ADIR( dirarray, "", "D" )
1042: SIZE = ALEN( dirarray, 1 )
1043: IF dirarray[ 1, 1 ] = "."
1044:   =ADEL( dirarray, 1 )
1045:   SIZE = SIZE - 1
1046:   DECLARE dirarray[ size, 5 ]
1047: ELSE
1048: * We must be in the root directory "\\"
1049: * Add one more row to the directory array
1050:   SIZE = SIZE + 1
1051:   DECLARE dirarray[ SIZE, 5 ]
1052: * Push all the rows down by one
1053: =AINS( dirarray, 1 )
1054: * Fill in the first directory name in the array
1055: * a bug in the popups makes it refuse to display a
1056: * prompt of "\", use "\\\" to make one \ appear
1057: * even then the bar will automatically be non-selectable
1058: * which in this case is fine
1059:   dirarray[ 1, 1 ] = "\\\"
1060: * Start the sort after the root name
1061: ENDIF
1062:

```

```

1063:
1064: IF ALEN( dirarray, 1 ) > 2
1065:
1066: * Sort the array starting at the starting row
1067: =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1068:
1069: ENDIF
1070: FOR i = 1 TO ALEN( dirarray, 1 )
1071:   dirarray[i,1] = "[" + dirarray[i,1] + "]"
1072: ENDFOR
1073:
1074: IF ADIR( filearray, m.wildcard ) = 0
1075:   SIZE = ALEN( dirarray, 1 )
1076:   DECLARE filearray[ size, 5 ]
1077:   =ACOPY( dirarray, filearray )
1078: ELSE
1079:   stop = ALEN( dirarray, 1 )
1080:   FOR i = 1 TO stop
1081:     SIZE = ALEN( filearray, 1 )
1082:     DECLARE filearray[ size + 1, 5 ]
1083:     =AINS( filearray, 1 )
1084:     filearray[1,1] = dirarray( alen( dirarray, 1 ), 1 )
1085:     IF ALEN( dirarray, 1 ) > 1
1086:       DECLARE dirarray( alen( dirarray, 1 ) - 1, 5 )
1087:     ENDIF
1088:   ENDIF
1089:   mfile = 1
1090:   RETURN
1091: *****
1092: *****
1093: *****
1094: *****
1095: *****
1096: *****
1097: *****
1098: *****
1099: *****
1100: *****
1101: *****
1102: *****
1103: *****
1104: *****
1105: *****
1106: *****
1107: *****
1108: *****
1109: *****
1110: *****
1111: *****
1112: *****
1113: *****
1114: *****
1115: *****
1116: *****
1117: *****
1118: *****
1119: *****
1120: *****
1121: *****
1122: *****
1123: *****
1124: *****
1125: *****
1126: *****
1127: *****
1128: *****

```

BACKUP Function PATHSTRING

```

PROCEDURE pathstring
DO CASE
CASE DOS
*****
* Convert an array of subdirectories, such as PathArray,
* into a legal path string for use with SET DEFAULT
* Use the current value of the path popup as the
* ending point on the path
PRIVATE ppath
* Start with the drive name
m.ppath = patharray[ 1 ]
* If the path popup is pointing to a subdirectory
IF mpath > 1
* Add all the subdirectories to the path string
FOR i = 2 TO mpath
m.ppath = m.ppath + "\" + patharray[ i ]
NEXT
ENDIF
* End the path with one last slash for good luck
m.ppath = m.ppath + "\"

```

```

1129: RETURN m.ppath
1130: *****
1131: CASE WINDOWS
1132: *****
1133: * Convert an array of subdirectories, such as PathArray,
1134: * into a legal path string for use with SET DEFAULT
1135: * Use the current value of the path popup as the
1136: * ending point on the path
1137: PRIVATE ppath
1138:
1139: * Start with the drive name
1140: m.ppath = patharray[ 1 ]
1141:
1142: * If the path popup is pointing to a subdirectory
1143: IF impath > 1
1144:
1145: * Add all the subdirectories to the path string
1146: FOR i = 2 TO impath
1147:     m.ppath = m.ppath + "\" + patharray[ i ]
1148: NEXT
1149: ENDIF
1150:
1151: * End the path with one last slash for good luck
1152: m.ppath = m.ppath + "\"
1153:
1154: RETURN m.ppath
1155: *****
1156: ENDCASE
1157:
1158:
1159:
1160:
1161: *
1162: *
1163: *
1164: *
1165: *
1166:
1167:
1168:
1169:
1170: PROCEDURE pkzip
1171: DO CASE
1172: CASE DOS
1173: *****
1174: PRIVATE CURDIR, datadir, msel
1175: CURDIR = FULLPATH(CURDIR())
1176: IF !EMPTY(GETENV("CAMD"))
1177:     datadir = FULLPATH(GETENV("CAMD"))
1178: ELSE
1179:     datadir = CURDIR()
1180: ENDIF
1181: desdir = pathstring() + mfname
1182: SET DEFA TO (datadir)
1183: IF !EMPTY(GETENV("CAMDUTIL"))
1184:     pkzipcom = "!\" + GETENV("CAMDUTIL") + "\PKZIP &desdir *.dbf *.c
=> dx *.idx *.fpt"
1185: ELSE
1186:     pkzipcom = "!PKZIP &desdir *.dbf *.cdx *.idx *.fpt"
1187: ENDIF
1188: &pkzipcom
1189: USE
1190: DELETE FILE t0000000.txt
1191: SET DEFA TO (CURDIR)
1192: RETURN
1193: CASE WINDOWS

```

BACKUP Procedure PKZIP


```

120: *
121: *
122: #REGION 1
123: IF WVISIBLE("w kb")
124:   ACTIVATE WINDOW w_kb SAME
125: ELSE
126:   ACTIVATE WINDOW w_kb NOSHOWN
127: ENDIF
128: @ 9.250,4.500 SAY "Consider" ;
129:   FONT "terminal", 8
130: @ 14.000,4.750 SAY "Probable" ;
131:   FONT "terminal", 8
132: @ 18.417,5.000 SAY "Likely" ;
133:   FONT "terminal", 8
134: @ 7.333,3.250 TO 21.666,24.875 ;
135:   PEN 1, 8
136: @ 5.833,4.000 SAY "Display thresholds" ;
137:   FONT "terminal", 8
138: @ 15.917,26.250 SAY "Inference" ;
139:   FONT "terminal", 8
140: @ 20.583,26.000 SAY "Confidence" ;
141:   FONT "terminal", 8
142: @ 1.500,4.125 SAY "Knowledge Base Area:" ;
143:   FONT "terminal", 8 ;
144:   STYLE "t"
145: @ 8.500,26.375 SAY "Total Rules:" ;
146:   FONT "terminal", 8 ;
147:   STYLE "t"
148: @ 25.083,5.625 GET mbuttons ;
149: PICTURE @*HN \<Add;\<Edit;\<Delete;\<OK;\<Cancel" ;
150: SIZE 1.917,11.125,0.875 ;
151: DEFAULT 1 ;
152: FONT "terminal", 8 ;
153: VALID qsfokofx9()
154: @ 6.083,53.500 GET mbuttons ;
155: PICTURE @*VN \<Next;\<Previous;\<Browse;\<Qualifiers;\<Goals;C
=> onc\<Lusion" ;
156:
157: SIZE 2.000,11.625,1.083 ;
158: DEFAULT 1 ;
159: FONT "terminal", 8 ;
160: VALID qsfokog2m()
161: @ 1.583,24.875 GET m.areasname ;
162: SIZE 1.000,34.750 ;
163: DEFAULT " " ;
164: FONT "terminal", 8
165: @ 9.250,13.625 GET m.threshold ;
166: SIZE 1.333,8.750 ;
167: DEFAULT 0 ;
168: FONT "terminal", 8
169: @ 14.000,13.875 GET m.pprobable ;
170: SIZE 1.333,9.000 ;
171: DEFAULT 0 ;
172: FONT "terminal", 8
173: @ 18.500,13.875 GET m.likely ;
174: SIZE 1.417,9.250 ;
175: DEFAULT 0 ;
176: FONT "terminal", 8
177: @ 8.500,39.750 GET m.rules ;
178: SIZE 1.000,5.875 ;
179: DEFAULT 0 ;
180: FONT "terminal", 8 ;
181: DISABLE
182: @ 11.917,26.500 GET m.isdiag ;

```

```

183: PICTURE @*C DIAGNOSIS" ;
184: SIZE 1.417,11.875 ;
185: DEFAULT 0 ;
186: FONT "terminal", 8
187: @ 20.250,37.500 GET m.mpop ;
188: PICTURE @* " ;
189: FROM methods ;
190: SIZE 1.500,13.000 ;
191: DEFAULT 1 ;
192: FONT "terminal", 8 ;
193: VALID qsfokogfv()
194: @ 15.833,37.500 GET m.mpop2 ;
195: PICTURE @* " ;
196: FROM infs ;
197: SIZE 1.500,12.750 ;
198: DEFAULT 1 ;
199: FONT "terminal", 8 ;
200: VALID _qsfokogih()
201:
202: IF NOT WVISIBLE("w kb")
203:   ACTIVATE WINDOW w_kb
204: ENDIF
205: READ CYCLE MODAL
206: RELEASE WINDOW w_kb
207: #REGION 0
208: SET readborder &rborder
209:
210: IF m.talkstat = "ON"
211:   SET TALK ON
212: ENDIF
213: IF m.compstat = "ON"
214:   SET COMPATIBLE ON
215: ENDIF
216: *
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: #REGION 1
229: SELECT area
230: USE
231: SELECT goals
232: USE
233: SELECT DISPLAY
234: USE
235: SELECT quals
236: USE
237: SELECT disease
238: USE
239: SELECT enjum
240: USE
241: SELECT dict
242: USE
243:

```

KB/Windows Cleanup Code

```

300: m.mpop2 = m.inference + 1
301:
302:
303:
=> 304:
=> 305:
=> 306:
=> 307:
*
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_kb")
ELSE ACTIVATE WINDOW w_kb SAME
ELSE ACTIVATE WINDOW w_kb NOSHOW
ENDIF
@ 5,2 SAY "consider" ;
SIZE 1,8,0
@ 7,2 SAY "probable" ;
SIZE 1,8,0
@ 9,2 SAY "likely" ;
SIZE 1,6,0
@ 14,6 GET m.buttons ;
PICTURE "a*HT \<Add;\<Edit;\<Delete;\<OK;\<Cancel" ;
SIZE 1,12,1 ;
DEFAULT 1 ;
VALID qsf0koh4z()
@ 5,12 GET m.threshold ;
SIZE 1,6 ;
DEFAULT 0 ;
@ 7,12 GET m.probable ;
SIZE 1,6 ;
DEFAULT 0 ;
@ 9,12 GET m.likely ;
SIZE 1,6 ;
DEFAULT 0 ;
@ 1,17 GET m.name ;
SIZE 1,34 ;
DEFAULT " " ;
@ 3,0 TO 10,24
@ 3,4 SAY "display thresholds" ;
SIZE 1,18,0
@ 3,28 SAY "rules" ;
SIZE 1,5,0
@ 3,37 GET m.rules ;
SIZE 1,4 ;
DEFAULT " " ;
DISABLE
@ 9,39 GET m.mpop ;
PICTURE "a " ;
FROM methods ;
SIZE 3,12 ;
DEFAULT 1 ;
VALID qsf0kohj1() ;
COLOR SCHEME 1, 2
@ 7,28 SAY "inference" ;
SIZE 1,9,0
@ 6,39 GET m.mpop2 ;
PICTURE "a " ;
FROM infs ;
SIZE 3,12 ;

```

```

300:
301:
302:
303:
=> 304:
=> 305:
=> 306:
=> 307:
*
*
*
*
*
*
#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
*
*
*
*
*
*
MS-DOS Window definitions
*
*
*
*
*
*
IF NOT WEXIST("w_kb") ;
OR UPPER(WTITLE("w_kb")) == "w_kb.pjx" ;
OR UPPER(WTITLE("w_kb")) == "w_kb.scx" ;
OR UPPER(WTITLE("w_kb")) == "w_kb.mnx" ;
OR UPPER(WTITLE("w_kb")) == "w_kb.prg" ;
OR UPPER(WTITLE("w_kb")) == "w_kb.frx" ;
OR UPPER(WTITLE("w_kb")) == "w_kb.qpr" ;
DEFINE WINDOW w_kb ;
FROM INT((SR0W()-18)/2),INT((SCOL()-75)/2) ;
TO INT((SR0W()-18)/2)+1,INT((SCOL()-75)/2)+74 ;
TITLE "Knowledge Base Area" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF
*
*
*
*
*
*
KB/MS-DOS Setup Code - SECTION 2
*
*
*
*
*
*
#REGION 1
SCATTER MENVAR
m.mpop = m.method + 1

```

```

361: DEFAULT 1 ;
362: VALID qsfokohm5( ) ;
363: COLOR SCHEME 1, 2 ;
364: @ 10, 28 SAY "Confidence" ;
365: SIZE 1, 10, 0 ;
366: @ 5, 28 GET m.isdiag ;
367: PICTURE "@*C DIAGNOSIS" ;
368: SIZE 1, 13 ;
369: DEFAULT 0 ;
370: @ 1, 0 GET minvbutton ;
371: PICTURE "@*HN \Knowledge Base" ;
372: SIZE 1, 16, 1 ;
373: DEFAULT 1 ;
374: VALID qsfokohpt( ) ;
375: MESSAGE "Knowledge Base" ;
376: @ 2, 58 GET mbuttons ;
377: PICTURE "@*VN \<Next; \<Previous; \<Browse; \<Qualifiers; \<Goals; C
=> onc\<Lusion" ;
378: SIZE 1, 13, 1 ;
379: DEFAULT 1 ;
380:
381: IF NOT WVISIBLE("w_kb")
382: ACTIVATE WINDOW w_kb
383: ENDIF
384:
385: READ CYCLE MODAL
386:
387: RELEASE WINDOW w_kb
388:
389: #REGION 0
390: IF m.talkstat = "ON"
391: SET TALK ON
392: ENDIF
393: IF m.compstat = "ON"
394: SET COMPATIBLE ON
395: ENDIF
396:
397: ENDCASE

```

```

_QSFOKOFX9
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:
1
Windows
KB, Record Number: 11
mbuttons VALID
VALID Clause
Push Button

```

```

426: SET TOPIC TO "DELETE"
427: DO kbdel.spr
428: CASE mbuttons = 4
429: SELECT area
430: m.name = m.areaname
431: GATHER MEMVAR
432: CLEAR READ
433: CASE mbuttons = 5
434: CLEAR READ
435: ENDCASE
436: SELECT area
437: SCATTER MEMVAR
438: DO setgoals
439: DO setgoals
440: DO setdisplay
441: m.mpop2 = area.method + 1
442: m.mpop2 = area.inference + 1
443: SHOW GETS
444: mtopic = ALIAS( )
445: SET TOPIC TO &mtopic
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463: FUNCTION _qsfokog2m
464: #REGION 1
465: SELECT area
466: DO CASE
467: CASE mbuttons = 1
468: m.recno = RECNO( )
469: IF IEOF( )
470: SKIP
471: SHOW GET mbuttons, 2 ENABLE
472: IF EOF( )
473: GOTO BOTTOM
474: SHOW GET mbuttons, 1 DISABLE
475: ENDIF
476: ELSE
477: GOTO BOTTOM
478: SHOW GET mbuttons, 2 ENABLE
479: SHOW GET mbuttons, 1 DISABLE
480: ENDIF
481: CASE mbuttons = 2
482: m.recno = RECNO( )
483: IF IBOF( )
484: SKIP -1
485: SHOW GET mbuttons, 1 ENABLE
486: ELSE
487: GOTO TOP
488: SHOW GET mbuttons, 1 ENABLE
489: SHOW GET mbuttons, 2 DISABLE
490: ENDIF
491: CASE mbuttons = 3

```

```

_QSFOKOG2M
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:
mbuttons VALID
Windows
KB, Record Number: 12
mbuttons
VALID Clause
Push Button

```

```

491: CASE mbuttons = 3
492: m.recno = RECNO( )
493: IF IBOF( )
494: SKIP -1
495: SHOW GET mbuttons, 1 ENABLE
496: ELSE
497: GOTO TOP
498: SHOW GET mbuttons, 1 ENABLE
499: SHOW GET mbuttons, 2 DISABLE
500: ENDIF
501: CASE mbuttons = 4
502: m.recno = RECNO( )
503: IF IEOF( )
504: SKIP
505: SHOW GET mbuttons, 2 ENABLE
506: IF EOF( )
507: GOTO BOTTOM
508: SHOW GET mbuttons, 1 DISABLE
509: ENDIF
510: ELSE
511: GOTO BOTTOM
512: SHOW GET mbuttons, 2 ENABLE
513: SHOW GET mbuttons, 1 DISABLE
514: ENDIF
515: CASE mbuttons = 5
516: m.recno = RECNO( )
517: IF IBOF( )
518: SKIP -1
519: SHOW GET mbuttons, 1 ENABLE
520: ELSE
521: GOTO TOP
522: SHOW GET mbuttons, 1 ENABLE
523: SHOW GET mbuttons, 2 DISABLE
524: ENDIF
525: CASE mbuttons = 6

```

```

415: FUNCTION _qsfokofx9
416: #REGION 1
417: DO CASE
418: CASE mbuttons = 1
419: SET TOPIC TO "ADD"
420: DO kblog.spr
421: CASE mbuttons = 2
422: SET TOPIC TO "kredit"
423: DO kbedit.spr
424: CASE mbuttons = 3
425:

```

```

_QSFOKOFX9
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:
1
Windows
KB, Record Number: 11
mbuttons VALID
VALID Clause
Push Button

```

```

415: FUNCTION _qsfokofx9
416: #REGION 1
417: DO CASE
418: CASE mbuttons = 1
419: SET TOPIC TO "ADD"
420: DO kblog.spr
421: CASE mbuttons = 2
422: SET TOPIC TO "kredit"
423: DO kbedit.spr
424: CASE mbuttons = 3
425:

```



```

624:  LEENDCASE
625:  IF m.goback
626:  GOTO m.recno
627:  ENDIF
628:  CASE mbutton = 3
629:  SET TOPIC TO "BROWSE"
630:  && <Browse>
631:  CASE ALIAS() = "AREA"
632:  BROWSE NOEDIT
633:  CASE ALIAS() = "RULE"
634:  BROWSE FOR area = area.area NOEDIT
635:  ENDCASE
636:  CASE mbutton = 4
637:  SET TOPIC TO "EDIT"
638:  && <Edit>
639:  DO CASE
640:  CASE ALIAS() = "AREA"
641:  DO kb.spr
642:  DO rule.spr
643:  ENDCASE
644:  CASE mbutton = 5
645:  SELECT quals
646:  SET TOPIC TO "QUALIFIERS"
647:  DO qual.spr
648:  RETURN .T.
649:  CASE mbutton = 6
650:  SELECT goals
651:  SET TOPIC TO "GOALS"
652:  DO goal.spr
653:  RETURN .T.
654:  ENDCASE
655:  DO setprem
656:  DO setact
657:  DO setquals
658:  DO setgoals
659:  DO setdisplay
660:  m.mpop2 = area.method + 1
661:  m.mpop2 = area.inference + 1
662:  SHOW GETS
663:  mtopic = ALIAS()
664:  SET TOPIC TO &mtopic

```

```

*_qsf0kohj1
Function Origin:
From Platform: MS-DOS Record Number: 35
From Screen: KB,
Variable: m.mpop
Called By: VALID Clause
Object Type: PopUp
Snippet Number: 6

```

```

681:  FUNCTION _qsf0kohj1 && m.mpop VALID
682:  #REGION 1
683:  m.method = m.mpop - 1

```

```

*_qsf0kohm5
Function Origin:
From Platform: MS-DOS Record Number: 40
From Screen: KB,
Variable: minvbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 8

```

```

688:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
689:  m.inference = m.mpop2 - 1

```

```

690:  *_qsf0kohm5
691:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
692:  #REGION 1
693:  m.inference = m.mpop2 - 1

```

```

701:  *_qsf0kohm5
702:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
703:  #REGION 1
704:  m.inference = m.mpop2 - 1

```

```

705:  *_qsf0kohm5
706:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
707:  #REGION 1
708:  m.inference = m.mpop2 - 1

```

```

709:  *_qsf0kohm5
710:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
711:  #REGION 1
712:  m.inference = m.mpop2 - 1

```

```

713:  *_qsf0kohm5
714:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
715:  #REGION 1
716:  m.inference = m.mpop2 - 1

```

```

717:  *_qsf0kohm5
718:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
719:  #REGION 1

```

```

720:  *_qsf0kohm5
721:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
722:  #REGION 1
723:  m.inference = m.mpop2 - 1

```

```

724:  *_qsf0kohm5
725:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
726:  #REGION 1
727:  m.inference = m.mpop2 - 1
728:  PRIVATE msel,i
729:  msel = SELECT()
730:  SELECT quals
731:  nq = RECCOUNT()
732:  DIMENSION mquals(nq,4)
733:  GOTO TOP
734:  mquals = ""
735:  i = 0
736:  DO WHILE IEOF()

```

```

737:  *_qsf0kohm5
738:  FUNCTION _qsf0kohm5 && m.mpop2 VALID
739:  #REGION 1

```



```

756: i = i + 1
757: mquals[i,3] = OBJECT
758: mquals[i,4] = id
759: IF OBJECT = "D"
760: SELECT disease
761: ELSE
762: SELECT dict
763: ENDF
764: SEEK mquals[i,4]
765: mquals[i,1] = name
766: mquals[i,2] = ALIAS
767: SELECT quals
768: SKIP
769: ENDDO
770: ng = i
771: SELECT (mset)
772: RETURN
773:
774: *
775: *
776: *
777: *
778: *
779: *
780: *
781: *
782: *
783: *
784: *
785: *
786: *
787: *
788: *
789: *
790: *
791: *
792: *
793: *
794: *
795: *
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798: *
799: *
800: *
801: *
802: *
803: *
804: *
805: *
806: *
807: *
808: *
809: *
810: *
811: *
812: *
813: *
814: *
815: *
816: *
817: *
818: *
819: *
820: *
821: *

```

KB Procedure SETGOALS

KB Procedure SETDISPLAY

```

822: SELECT DISPLAY
823: nd = RECCOUNT()
824: nd = MAX(nd,1)
825: DIMENSION mdipl[nd,4]
826: GOTO TOP
827: i = 0
828: mdipl = ""
829: DO WHILE IEOF()
830: i = i + 1
831: mdipl[i,3] = OBJECT
832: mdipl[i,4] = id
833: IF OBJECT = "D"
834: SELECT disease
835: ELSE
836: SELECT dict
837: ENDF
838: SEEK mdipl[i,4]
839: mdipl[i,1] = name
840: mdipl[i,2] = ALIAS
841: SELECT DISPLAY
842: SKIP
843: ENDDO
844: nd = i
845: SELECT (mset)
846: RETURN
847:
848: *
849: *
850: *
851: *
852: *
853: *
854: *
855: *
856: *
857: *
858: *
859: *
860: *
861: *
862: *
863: *
864: *
865: *
866: *
867: *
868: *
869: *
870: *
871: *
872: *
873: *
874: *
875: *
876: *
877: *
878: *
879: *
880: *
881: *
882: *
883: *
884: *
885: *
886: *
887: *

```

KB Procedure EDGOAL

KB Procedure EDQUAL

KB Procedure EDDISPLAY

KB Function EDOBJ

```

888: *
889: *
890: *
891:
892: FUNCTION edobj
893: PARAMETERS mobj, mid
894: PRIVATE msel
895: msel = SELECT()
896: IF mobj = "ID"
897:   SELECT disease
898:   SEEK mid
899:   DO disease.spr
900: ELSE
901:   SELECT dict
902:   SEEK mid
903:   DO dict.spr WITH mid
904: ENDIF.
905: SELECT (msel)
906: RETURN ""
907:
908:
909: *: EOF: KB.ac1

```



```

122: *
=> 123: * MS-DOS Window definitions
=> 124: *
=> 125: *
126: *
127: *
128: *
129: *
130: *
131: *
132: *
133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: *
141: *
142: *
=> 143: *
=> 144: *
=> 145: *
=> 146: *
=> 147: *
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164: *
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166: *
167: *
168: *
169: *
170: *
171: *
172: *
173: *
174: *
175: *
176: *
177: *
178: *

```

```

IF NOT WEXIST(" qsf0kokln")
DEFINE WINDOW qsf0kokln ;
FROM INT((SROW()-8)/2),INT((SCOL()-39)/2) ;
TO INT((SROW()-8)/2)+7,INT((SCOL()-39)/2)+38 ;
FLOAT ;
NOCLOSE ;
SHADOW ;
NOMINIMIZE ;
DOUBLE ;
COLOR SCHEME 5
ENDIF

```

KBDEL/MS-DOS Screen Layout

```

#REGION 1
IF WVISIBLE(" qsf0kokln")
ACTIVATE WINDOW qsf0kokln SAME
ELSE
ACTIVATE WINDOW qsf0kokln NOSHOW
ENDIF
@ 4,8 GET mbutton ;
PICTURE "a*HT OK;Cance!" ;
SIZE 1,8,2 ;
DEFAULT 1 ;
VALID qsf0kokpt()
@ 1,10 GET area.name ;
SIZE 1,26 ;
DEFAULT "" ;
DISABLE
@ 1,1 SAY "Delete:" ;
SIZE 1,7, 0

IF NOT WVISIBLE(" qsf0kokln")
ACTIVATE WINDOW qsf0kokln
ENDIF
READ CYCLE MODAL
RELEASE WINDOW qsf0kokln
#REGION 0
IF m.talkstat = "ON"
SET TALK ON
ENDIF

```

```

179: *
180: *
181: *
182: *
183: *
184: *
185: *
186: *
187: *
188: *
189: *
190: *
191: *
192: *
193: *
194: *
195: *
196: *
197: *
198: *
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212: *
213: *
214: *
215: *
216: *
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *

```

```

IF m.compstat = "ON"
SET COMPATIBLE ON
ENDIF
ENDCASE

```

```

_qsf0kokeu      mbutton VALID
Function Origin:
From Platform:  Windows      Record Number:  2
From Screen:    KBDEL,      mbutton
Variable:       VALID Clause
Called By:      Push Button
Object Type:    1
Snippet Number: 1

```

```

FUNCTION 1_qsf0kokeu  && mbutton VALID
#REGION 1
DO CASE
CASE mbutton = 1
*do (m.home + "\kdelete") with area.name
DO kdelete WITH area.name
ENDCASE
RETURN .T.

```

```

_qsf0kokpt      mbutton VALID
Function Origin:
From Platform:  MS-DOS      Record Number:  7
From Screen:    KBDEL,      mbutton
Variable:       VALID Clause
Called By:      Push Button
Object Type:    2
Snippet Number: 2

```

```

FUNCTION 1_qsf0kokpt  && mbutton VALID
#REGION 1
DO CASE
CASE mbutton = 1
*do (m.home + "\kdelete") with area.name
DO kdelete WITH area.name
ENDCASE
RETURN .T.
* EOF: KBDEL.ac1

```

08/09/94	QUAL.SPR	09:39:00
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description:		
This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
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45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *

```

```

62: MOVE WINDOW w_qe CENTER
63: ENDIF
64: *
65: *
66: *
67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
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113: *
114: *
115: *
116: *
117: *

```

```

#REGION 1
EXTERNAL ARRAY mquals
QUAL/Windows Setup Code - SECTION 2
QUAL/Windows Screen Layout

#REGION 1
IF WVISIBLE("w_qe")
ACTIVATE WINDOW w_qe SAME
ELSE
ACTIVATE WINDOW w_qe NOSHOW
ENDIF
@ 17.538,16.333 GET mbuttons ;
PICTURE "g*HT \<edit;\<quit" ;
SIZE 1.846,10.667,1.000 ;
DEFAULT 1 ;
FONT "MS Sans Serif", 8 ;
STYLE "B" ;
VALID _qsf0komjfc(
@ 0.385,2.667 GET mq ;
PICTURE "g&N" ;
FROM mquals ;
SIZE 16.154,63.200 ;
DEFAULT 1 ;
FONT "MS Sans Serif", 8 ;
VALID _qsf0komrx(
IF NOT WVISIBLE("w_qe")
ACTIVATE WINDOW w_qe
ENDIF
READ CYCLE MODAL
RELEASE WINDOW w_qe
#REGION 0
SET readborder &rborder
IF m.talkstat = "ON"
SET TALK ON

```

```

118: ENDIF
119: IF m.compstat = "ON"
120: SET COMPATIBLE ON
121: ENDIF
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:
133:
134:
135:
136:
137:
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```

```

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229:

```

```

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262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273:

```



```

357: #REGION 1
358: *
359: *
360: *
361: *
362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
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411: *
412: *
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *

```

QUAL Function POPUPSHOW

```

FUNCTION popupshow
PARAMETERS errstr
IF NOT EXIST("w_popnote")
DEFINE WINDOW w_popnote
FROM INT((SROW()-8)/2),INT((SCOL()-36)/2)
TO INT((SROW()-8)/2)+7,INT((SCOL()-36)/2)+35;
TITLE "One moment";
FLOAT;
CLOSE;
SHADOW;
DOUBLE;
COLOR SCHEME 1
ENDIF
IF WVISIBLE("w_popnote")
ACTIVATE WINDOW w_popnote SAME
ELSE
ACTIVATE WINDOW w_popnote NOSHOW
ENDIF
@ 1,1 SAY errstr SIZE 3,31
IF NOT WVISIBLE("w_popnote")
ACTIVATE WINDOW w_popnote
ENDIF
RETURN ""

```

QUAL Function POPUPHIDE

```

FUNCTION popuphide
PARAMETERS w
RELEASE WINDOW w_popnote
RETURN w

```

* This procedure validate the object to have access to delete or not.

QUAL Function VALIDOBJ

```

FUNCTION validobj
PRIVATE msel,mvalid
mvalid = .f.
msel = SELECT()
SELECT quals

```

```

423: SEEK mquals [mq,4]
424: IF FOUND()
425: IF EMPTY(rules) AND EMPTY(ruleso)
426: mvalid = .t.
427: ELSE
428: msg = ALLTRIM(STRTSTRAN(rules," ",""))
429: IF EMPTY(ruleso)
430: msg = msg + IIF(EMPTY(msg),",","") + ALLTRIM(STRTSTRAN(rules
=> o,"|",""))
431: }
432: }
433: }
434: }
435: }
436: }
437: }
=> s not allowed!!."2)
438: }
439: }
440: }
441: }
442: }
443: }
444: }
445: }
446: }
447: }
448: }
449: }
450: }
451: }
452: }
453: }
454: }
455: }
456: }
457: }
458: }
459: }
460: }
461: }
462: }
463: }
464: }
465: }

```

QUAL Function QUALDEL

```

*
*
*
*
*
FUNCTION qualdel
PRIVATE msel
msel = SELECT()
SELECT quals
SEEK mquals [mq,4]
IF FOUND()
= popupshow("deleting...")
DELETE
PACK
= popuphide()
ENDIF
DO setquals
SELECT (msel)
RETURN
* EOF: QUAL.ac1

```


08/09/94	GOAL.SPR	09:39:04
<p>Author's Name</p> <p>Copyright (c) 1994 Company Name</p> <p>Address</p> <p>City, Zip</p> <p>Description:</p> <p>This program was automatically generated by GENSCRN.</p>		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
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37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *

```

```

DO CASE
CASE WINDOWS

```

```

#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT WEXIST("w_goal") ;
OR UPPER(WTITLE("w_goal")) == "w_goal.pjx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.scx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.mnx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.prj" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.erx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.qpr" ;
DEFINE WINDOW w_goal
AT 0,000,0,000 ;
SIZE 22,500,48,375 ;
TITLE "Goal Object Editor" ;
FONT "Terminal", 8 ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(,, 128,128,128)
MOVE WINDOW w_goal CENTER

```

```

ENDIF

```

GOAL/Windows Screen Layout

```

#REGION 1
IF WVISIBLE("w_goal")
ACTIVATE WINDOW w_goal SAME
ELSE
ACTIVATE WINDOW w_goal NOSHOW
ENDIF
@ 20,167,17,000 GET m.buttons ;
PICTURE "@*HN \<Edit;\<quit" ;
SIZE 1,917,6,000,0,750 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsfofopcm(
@ 0,583,1,875 GET m.g ;
PICTURE "@&N" ;
FROM m.goals ;
SIZE 17,500,44,250 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _qsfofopg7(
IF NOT WVISIBLE("w_goal")
ACTIVATE WINDOW w_goal
ENDIF

```

READ CYCLE MODAL

RELEASE WINDOW w_goal

#REGION 0

SET readborder &rborder

```

IF m.talkstat = "ON"
SET TALK ON
ENDIF
IF m.compstat = "ON"
SET COMPATIBLE ON
ENDIF

```

CASE _DOS

```

#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"

```

```

123: _ENDIF
124: m.compmat = SET("COMPATIBLE")
125: SET COMPATIBLE FOXPLUS
126: *
127: =>
128: *
129: *
130: *
131: *
132: *
133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: *
141: *
142: *
143: *
144: *
145: *
146: *
147: *
148: *
149: *
150: *
151: *
152: *
153: *
154: *
155: *
156: *
157: *
158: *
159: *
160: *
161: *
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: *
172: *
173: *
174: *
175: *
176: *
177: *
178: *

```

```

179: IF NOT WVISIBLE("w_goal")
180: ACTIVATE WINDOW w_goal
181: _ENDIF
182: READ CYCLE MODAL
183: *
184: *
185: *
186: *
187: *
188: *
189: *
190: *
191: *
192: *
193: *
194: *
195: *
196: *
197: *
198: *
199: *
200: *
201: *
202: *
203: *
204: *
205: *
206: *
207: *
208: *
209: *
210: *
211: *
212: *
213: *
214: *
215: *
216: *
217: *
218: *
219: *
220: *
221: *
222: *
223: *
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: *
243: *
244: *

```

```

_QSF0KOPCM      mbuttons VALID
Function Origin:
From Platform:  Windows      Record Number:  2
From Screen:   GOAL,
Variable:      mbuttons
Called By:     VALID Clause
Object Type:   Push Button
Snippet Number: 1

```

```

_QSF0KOPG7      mg VALID
Function Origin:
From Platform:  Windows      Record Number:  3
From Screen:   GOAL,
Variable:      mg
Called By:     VALID Clause
Object Type:   List
Snippet Number: 2

```

DO edgoal

```

245:
246:
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:

```

```

_QSF0KOPTK          mbuttons VALID
Function Origin:
From Platform:      MS-DOS          Record Number: 6
From Screen:       GOAL,          mbuttons
Variable:          mbuttons
Called By:         VALID Clause
Object Type:       Push Button
Snippet Number:    3

```

FUNCTION _qsf0koptk && mbuttons VALID

```

#REGION 1
DO CASE
CASE mbuttons = 1
  DEACTIVATE WINDOW w_goal
  DO object.spr WITH "G"
  ACTIVATE WINDOW w_goal
  DO setgoals
CASE mbuttons = 2  && ok
  mok = .T.
  CLEAR READ
CASE mbuttons = 3  && cancel
  mok = .F.
  CLEAR READ
ENDCASE
SHOW GETS

```

```

279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:

```

```

_QSF0KOPXH          mg VALID
Function Origin:
From Platform:     MS-DOS          Record Number: 7
From Screen:       GOAL,          mg
Variable:          mg
Called By:         VALID Clause
Object Type:       List
Snippet Number:    4

```

```

FUNCTION _qsf0koptk && mg VALID
#REGION 1
DO edgoal
*: EOF: GOAL.ac1

```

```

62: _ENDIF
63: *
64: *
65: *
=> 66: |
=> 67: | DISPLAY/Windows Screen Layout
=> 68: |
=> 69: |
=> 70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
95: *
96: *
97: *
98: *
99: *
100: *
101: *
102: *
103: *
104: *
105: *
106: *
107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *
118: *
119: *
120: *
121: *
122: *

```

```

#REGION 1
IF WVISIBLE("w_displ")
  ACTIVATE WINDOW w_displ SAME
ELSE
  ACTIVATE WINDOW w_displ NOSHOWN
ENDIF
  @ 18.833,16.000 GET mbuttons ;
  PICTURE "a*HT \<Edit;\<quit" ;
  SIZE 1,917,6.000,0.750 ;
  DEFAULT 1 ;
  FONT "terminal", 8 ;
  VALID qsfokorj1() ;
  @ 0.667,1.750 GET md ;
  PICTURE "a&n" ;
  FROM mdispl ;
  SIZE 16.333,44.250 ;
  DEFAULT 1 ;
  FONT "terminal", 8 ;
  VALID _qsfokormj() ;
ENDIF
IF NOT WVISIBLE("w_displ")
  ACTIVATE WINDOW w_displ
ENDIF
READ CYCLE MODAL
RELEASE WINDOW w_displ
#REGION 0
SET readborder &rborder
IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF
CASE _DOS
#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
  SET TALK OFF
ELSE
  m.talkstat = "ON"
  m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READORDER")
SET readborder ON
*
*
*
*
*
*

```

```

DO CASE
CASE _WINDOWS
#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
  SET TALK OFF
ELSE
  m.talkstat = "ON"
  m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READORDER")
SET readborder ON
*
*
*
*
*
*

```

```

IF NOT WEXIST("w_displ") ;
OR UPPER(WTITLE("W_DISP")) == "W_DISP.PJX" ;
OR UPPER(WTITLE("W_DISP")) == "W_DISP.SCX" ;
OR UPPER(WTITLE("W_DISP")) == "W_DISP.MNX" ;
OR UPPER(WTITLE("W_DISP")) == "W_DISP.PRG" ;
OR UPPER(WTITLE("W_DISP")) == "W_DISP.FRX" ;
OR UPPER(WTITLE("W_DISP")) == "W_DISP.QPR" ;
DEFINE WINDOW w_displ ;
AT 0.000,0.000 ;
SIZE 21.250,48.500 ;
TITLE "Display Object Editor" ;
FONT "Terminal", 8 ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(128,128,128) ;
MOVE WINDOW w_displ CENTER

```

08/09/94	DISPLAY.SPR	09:39:07
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description:		
This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
=> 38: |
=> 39: | Windows window definitions
=> 40: |
=> 41: |
=> 42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *

```

```

123: _ENDIF
124: m-compstat = SET("COMPATIBLE")
125: SET COMPATIBLE FOXPLUS
126: *
127: *
=> 128: |
129: |
130: | MS-DOS Window definitions
=> 131: |
132: *
133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: *
141: *
142: *
143: *
144: *
145: *
146: *
147: *
148: *
149: *
150: *
151: *
152: *
153: *
=> 154: |
155: |
=> 156: |
157: |
=> 158: |
159: |
160: |
161: |
162: |
163: |
164: |
165: |
166: |
167: |
168: |
169: |
170: |
171: |
172: |
173: |
174: |
175: |
176: |
177: |
178: |

```

```

179:
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222:
223:
224:
225:
226:
227:
228:
229:
230:
231:
232:
233:
234:
235:
236:
237:
238:
239:
240:
241:
242:
243:
244:

```

```

SIZE 14,60 ;
DEFAULT 1 ;
VALID qsfokos6a( ) ;
COLOR SCHEME 2

[ IF NOT WVISIBLE("w_displ")
  ACTIVATE WINDOW w_displ
]
ENDIF

READ CYCLE MODAL
RELEASE WINDOW w_displ

#REGION 0
[ IF m.talkstat = "ON"
  SET TALK ON
]
ENDIF
[ IF m.compstat = "ON"
  SET COMPATIBLE ON
]
ENDIF
ENDCASE

* * * * *
FUNCTION _qsfokorj1 && mbuttons VALID
DO CASE
CASE mbuttons = 1 && Edit
[ IF EMPTY(md)
  DO eddisplay
]
ENDIF
mok = .T.
CASE mbuttons = 2 && Quit
mok = .F.
CLEAR READ
]
ENDCASE

* * * * *
_qsfokormj
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:

```

_qsfokorj1	mbuttons VALID	Record Number: 2
Function Origin:	Windows	
From Platform:	DISPLAY,	
From Screen:	mbuttons	
Variable:	VALID Clause	
Called By:	Push Button	
Object Type:	1	
Snippet Number:		

_qsfokormj	md VALID	Record Number: 3
Function Origin:	Windows	
From Platform:	DISPLAY,	
From Screen:	md	
Variable:	VALID Clause	
Called By:	List	
Object Type:	2	
Snippet Number:		

```

311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
Object Type: List
Snippet Number: 5
FUNCTION _qsf0kos6a   && md VALID
DO eddisplay
DO eddisplay
* EOF: DISPLAY.ac1
  
```

```

245: *
246: *
247: *
248: *
249: *
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *
265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *
291: *
292: *
293: *
294: *
295: *
296: *
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
FUNCTION _qsf0kormj   && md VALID
DO eddisplay
FUNCTION _qsf0korzx   && mbuttons VALID
DO CASE
CASE mbuttons = 1   && ok
  mok = .T.
CASE mbuttons = 2   && cancel
  mok = .F.
ENDCASE
FUNCTION _qsf0kos30   && mbutton VALID
DO CASE
CASE mbutton = 1
  APPEND BLANK
REPLACE area WITH area.area
CASE mbutton = 2
ENDCASE
SHOW GETS
FUNCTION _qsf0kos6a   md VALID
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: md
Called By: VALID Clause
Snippet Number: 6
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 7
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: md
Called By: VALID Clause
Snippet Number: 8
  
```

```

_qsf0KORZX
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
mbuttons VALID
Record Number: 6
  
```

```

_qsf0KOS30
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
mbutton VALID
Record Number: 7
  
```

```

_qsf0KOS6A
Function Origin:
From Platform: MS-DOS
From Screen: DISPLAY,
Variable: md
Called By: VALID Clause
md VALID
Record Number: 8
  
```

08/09/94	DISEASE.SPR	09:39:10
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description: This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *

```

PARAMETERS m.adding

```

17: DO CASE
18: CASE _WINDOWS

```

```

19: #REGION 0
20: REGIONAL m.currearea, m.talkstat, m.compstat

```

```

21: IF SET("TALK") = "ON"

```

```

22: SET TALK OFF

```

```

23: m.talkstat = "ON"

```

```

24: ELSE

```

```

25: m.talkstat = "OFF"

```

```

26: ENDIF

```

```

27: m.compstat = SET("COMPATIBLE")

```

```

28: SET COMPATIBLE FOXPLUS

```

```

29: m.rborder = SET("READBORDER")

```

```

30: SET readborder ON

```

```

31: *
32: *
33: *
34: *
35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *

```

```

IF NOT VEXIST("w_disease") ;
OR UPPER(WTITLE("W_DISEASE")) = "W_DISEASE.PJX" ;
OR UPPER(WTITLE("W_DISEASE")) = "W_DISEASE.SCX" ;
OR UPPER(WTITLE("W_DISEASE")) = "W_DISEASE.MNX" ;
OR UPPER(WTITLE("W_DISEASE")) = "W_DISEASE.PRG" ;
OR UPPER(WTITLE("W_DISEASE")) = "W_DISEASE.FRX" ;
OR UPPER(WTITLE("W_DISEASE")) = "W_DISEASE.QPR" ;
DEFINE WINDOW w_disease ;
AT 0,000,0,000 ;
SIZE 28,333,66,500 ;
TITLE "Disease Object Editor" ;
FONT "terminal", 8 ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(,,0,255,255)

```

```

62: MOVE WINDOW w_disease CENTER
63: ENDIF

```

```

64: *
65: *
66: *
67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
95: *
96: *
97: *
98: *
99: *
100: *
101: *
102: *
103: *
104: *
105: *
106: *
107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *

```

```

#REGION 1
PRIVATE msel
msel = SELECT()
SELECT disease
SCATTER MEMVAR MEMO

```

DISEASE/Windows Screen Layout

```

#REGION 1
IF WVISIBLE("w_disease")
ACTIVATE WINDOW w_disease SAME
ELSE
ACTIVATE WINDOW w_disease NOSHOW
ENDIF
@ 0,333,15,250 SAY "Name" ;
FONT "terminal", 8
@ 0,417,2,875 SAY "Id" ;
FONT "terminal", 8
@ 13,417,2,625 SAY "Treatment" ;
FONT "terminal", 8 ;
STYLE "t"
@ 1,833,2,750 SAY "Description:" ;
FONT "terminal", 8 ;
STYLE "t"
@ 0,500,5,875 GET m.id ;
SIZE 1,000,5,000 ;
DEFAULT " " ;
FONT "terminal", 8 ;
DISABLE
@ 0,417,20,625 GET m.name ;
SIZE 1,000,41,125 ;
DEFAULT " " ;
FONT "terminal", 8 ;
PICTURE "@@" ;
DISABLE
@ 3,500,2,875 EDIT m.description ;
SIZE 9,250,61,000,0.000 ;
DEFAULT " " ;
FONT "terminal", 8 ;
SCROLL

```

```

118: @ 14,833,2.625 EDIT m.treatment ;
119: SIZE 10,417,61.000,0.000 ;
120: DEFAULT " " ;
121: FONT "terminal", 8 ;
122: SCROLL
123: @ 25,917,25.750 GET m.buttons ;
124: PICTURE "@*HT \<OK:\<Cancel" ;
125: SIZE 1,917,7.500,0.750 ;
126: DEFAULT 1 ;
127: FONT "terminal", 8 ;
128: VALID _qsf0kou0d(
129:
130:
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
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161:
162:
163:
164:
=>
165:
=>
166:
=>
167:
=>
168:
=>
169:
170:
171:
172:
173:

```

```

174:
175:
176:
177:
178:
179:
180:
181:
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183:
184:
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186:
187:
188:
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189:
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216:
=>
217:
=>
218:
=>
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:

```

```

--ENDIF
#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
*
*
*
*
*
*
MS-DOS Window definitions
*
*
*
*
*
*
IF NOT WEXIST("w_disease") ;
OR UPPER(WTITLE("w_disease")) == "w_disease.pxh" ;
OR UPPER(WTITLE("w_disease")) == "w_disease.scx" ;
OR UPPER(WTITLE("w_disease")) == "w_disease.mnx" ;
OR UPPER(WTITLE("w_disease")) == "w_disease.prg" ;
OR UPPER(WTITLE("w_disease")) == "w_disease.frx" ;
OR UPPER(WTITLE("w_disease")) == "w_disease.qpr" ;
DEFINE WINDOW w_disease ;
FROM INT((SROW()-20)/2), INT((SCOL()-78)/2) ;
TO INT((SROW()-20)/2)+19, INT((SCOL()-78)/2)+77 ;
TITLE "Disease Object Editor" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF
*
*
*
*
*
*
DISEASE/MS-DOS Screen Layout
*
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_disease")
ACTIVATE WINDOW w_disease SAME
ELSE
ACTIVATE WINDOW w_disease NOSHOW
ENDIF
@ 0,19 GET disease.name ;
SIZE 1,35 ;
DEFAULT " " ;

```



```

230: PICTURE "a1";
231: WHEN m.adding = disease.id ;
232: DISABLE
233: @ 0,13 SAY "Name";
234: @ SIZE 1,4,0
235: @ 1,0 EDIT disease.descript ;
236: @ SIZE 7,76,0 ;
237: DEFAULT " " ;
238: SCROLL
239: @ 9,0 EDIT disease.treatment ;
240: @ SIZE 7,76,0 ;
241: DEFAULT " " ;
242: SCROLL
243: @ 17,29 GET mbuttons ;
244: PICTURE "a*HN \<OK;\<Cancel" ;
245: @ SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: VALID qsf0koumi()
248: @ 0,0 SAY "id" ;
249: @ SIZE 1,2,0
250: @ 0,4 GET disease.id ;
251: @ SIZE 1,5 ;
252: DEFAULT " " ;
253: DISABLE
254:
255: [IF NOT WVISIBLE("w_disease")
256:   ACTIVATE WINDOW w_disease
257: ]ENDIF
258:
259: READ CYCLE MODAL ;
260: WHEN _qsf0kouqk()
261:
262:   RELEASE WINDOW w_disease
263:
264: #REGION 0
265: [IF m.talkstat = "ON"
266:   SET TALK ON
267: ]ENDIF
268: [IF m.compstat = "ON"
269:   SET COMPATIBLE ON
270: ]ENDIF
271:
272: ]ENDCASE
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291: #FUNCTION 1_
292: #REGION 1_
293: DO CASE
294: CASE mbuttons = 1  && ok
295: SELECT disease

```

```

296: GATHER MEMVAR MEMO
297: mok = .T.
298: CASE mbuttons = 2  && cancel
299: mok = .F.
300: ]ENDCASE
301: SHOW GETS
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321: #REGION 1
322: SET TOPIC TO "GOAL"
323: SHOW GET m.name ENABLE
324: CUROBJ = OBJNUM(m.name)
325: SHOW GETS
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343: #FUNCTION 1_
344: #REGION 1_
345: DO CASE
346: CASE mbuttons = 1  && ok
347: mok = .T.
348: CLEAR READ
349: CASE mbuttons = 2  && cancel
350: mok = .F.
351: CLEAR READ
352: ]ENDCASE
353: SHOW GETS
354:
355:
356:
357:
358:
359:
360:
361:

```

```

_qsf0kou3p      Read Level When
Function Origin:
From Platform:  Windows
From Screen:    DISEASE
Called By:      READ Statement
Snippet Number:  2

```

```

_qsf0koumi      mbuttons VALID
Function Origin:
From Platform:  MS-DOS
From Screen:    DISEASE,
Variable:       mbuttons
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number:  3

```

```

_qsf0kou0d      mbuttons VALID
Function Origin:
From Platform:  Windows
From Screen:    DISEASE,
Variable:       mbuttons
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number:  1

```

```

_qsf0kouqk      Read Level When
Function Origin:

```

DISEASE.AC1 10-3-94 3:00p

From Platform:	MS-DOS
From Screen:	DISEASE
Called By:	READ Statement
Snippet Number:	4

```

362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
384: *
385: *
386: *
387: *
388: *
389: *

```

```

FUNCTION _qsfkouqk    && Read Level When
* When Code from screen: DISEASE
#REGION 1
SET TOPIC TO "GOAL"
SHOW GET disease.name ENABLE
CUROBJ = OBJNUM(disease.name)
SHOW GETS

```

DISEASE/MS-DOS Supporting Procedures and Functions
--

```

#REGION 1
*: EOF: DISEASE.ac1

```

```

1: * *****
=> *****
2: * Procedure file: C:\CAMD2\KBEDIT\WORK\KBLDR.PRG
3: * System: Knowledge Base Editor
4: * Author: Hoa L. Ly
5: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
6: *
=> 7: * Last modified: 08/09/94 at 8:37:34
8: *
9: * Set by: _QSF0KQC6T() (function in KBLOAD.SPR)
10: * : _QSF0KQCZG() (function in KBLOAD.SPR)
11: *
12: * Uses: FACT.DBF
13: * : PREMISE.DBF
14: * : ACTION.DBF
15: * : RULE.DBF
16: * : KBHELP.DBF
17: *
18: * Indexes: FACT.IDX
19: * : PREMISE.IDX
20: * : ACTION.IDX
21: * : RULEAREA.IDX
22: * : SALIENCE.IDX
23: * : RULE.IDX
24: *
25: * Documented 15:00:57 FoxDoc versio
=> n 3.00a
26: * *****
=> *****
27: * kbldr.prg
28: * -----
29: * Knowledge Base Loader
30: * for
31: * Medical Practice Support System
32: *
33: * $Revision: 1.1 $
34: * $Date: 92/05/04 11:10:24 $
35: * $Author: RoyHDobbins $
36: *
37: *
38: * ----- && source directory
39: PARAMETERS m.new
40: *
41: * Load a new knowledge base
42: *
43: * Objects from the new knowledge base are appended to the
44: * existing knowledge base files, or replace existing objects.
45: * Existing rulesets and their associated premise, action clauses
46: * are deleted first, before the new ruleset is loaded
47: * Other objects may only be edited, not replaced.
48: *
49: PRIVATE m.exists
50: PRIVATE m.unique
51: PRIVATE m.word
52: PRIVATE mexact
53: PRIVATE m.newrecno
=> e current area record number
54: *
55: * check all the database exist at m.new directory.
56: * If any database was not define will be stop process.
57: IF FILE(m.new + "dict.dbf")
58: RETURN
59: ENDIF
60: IF FILE(m.new + "val.dbf")
61: RETURN

```

```

62: ENDIF
63: IF FILE(m.new + "enum.dbf")
64: RETURN
65: ENDIF
66: IF FILE(m.new + "disease.dbf")
67: RETURN
68: ENDIF
69: IF FILE(m.new + "help.dbf")
70: RETURN
71: ENDIF
72: IF FILE(m.new + "area.dbf")
73: RETURN
74: ENDIF
75: IF FILE(m.new + "fact.dbf")
76: RETURN
77: ENDIF
78: IF FILE(m.new + "premise.dbf")
79: RETURN
80: ENDIF
81: IF FILE(m.new + "action.dbf")
82: RETURN
83: ENDIF
84: IF FILE(m.new + "rule.dbf")
85: RETURN
86: ENDIF
87: IF FILE(m.new + "goals.dbf")
88: RETURN
89: ENDIF
90: IF FILE(m.new + "display.dbf")
91: RETURN
92: ENDIF
93: *
94: * Open the database
95: SELECT 0
96: USE fact INDEX fact
97: SELECT 0
98: USE premise INDEX premise
99: SET RELATION TO fact INTO fact
100: SELECT 0
101: USE action INDEX action
102: SELECT 0
103: USE rule INDEX rulearea,salience,rule
104: SET RELATION TO premise INTO premise, action INTO action
105: SELECT area
106: SET RELATION TO area INTO rule
107:
108: SELECT area
109: m.newrecno = RECNO()
110:
111: * -----
112: * update dict/enum/val databases
113: *
114: * -----
115: SELECT dict
116: GOTO BOTTOM
117: m.qualid = id + 1
118: SET ORDER TO 2
119: SELECT 0
120: USE (m.new + "dict") ALIAS newdict
121:
122: i = MAX( RECCOUNT(), 1 )
123: PRIVATE mqid, mqid
124: DIMENSION mqid[i], mqid[i]
125:
126:
127: DO WHILE !EOF()

```

```

128: SCATTER MEMVAR
129: m.newid = m.id
130: mgid[ RECNO() ] = m.id
131: SELECT dict
132: m.name = UPPER( TRIM( m.name ) )
133: IF LEN( m.name ) > LEN( name )
134: m.name = SUBSTR( m.name, LEN( name ) )
135: ENDIF
136: SEEK m.name
137: IF FOUND()
138: * item already exists
139: * some fields cannot be edited - use existing values
140: m.datatype = datatype
141: m.exists = .T.
142: m.id = id
143: ELSE
144: m.exists = .F.
145: m.id = m.id + m.qualid
146: APPEND BLANK
147: ENDIF
148: GATHER MEMVAR
149: m.uid = m.id
150: IF m.datatype = "N"
151: * update numeric type
152: SELECT 0
153: USE (m.new + "val") ALIAS newval
154: LOCATE FOR id = m.newid
155: SCATTER MEMVAR
156: SELECT VAL
157: SEEK m.uid
158: IF !FOUND()
159: APPEND BLANK
160: ENDIF
161: m.id = m.uid
162: GATHER MEMVAR
163: SELECT newval
164: USE
165: ELSE
166: * update enumerated types
167: * You can only append additional enumerated values
168: SELECT enum
169: SEEK m.uid
170: m.exists = FOUND()
171: m.uord = 0
172: IF m.exists
173: * next available ordinal value
174: COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
175: ENDIF
176: SELECT 0
177: USE (m.new + "enum") ALIAS newenum
178: LOCATE FOR id = m.newid
179: DO WHILE id = m.newid .AND. !EOF()
180: SCATTER MEMVAR
181: m.unique = .F.
182: IF m.exists
183: * existing element, ensure enumeration is new
184: SELECT enum
185: SEEK m.uid
186: mexact = SET("EXACT")
187: SET EXACT ON
188: DO WHILE id = m.uid .AND. !EOF()
189: IF enumerate = m.enumerate
190: m.unique = .F.
191: EXIT
192: LENDIF

```

```

193: SKIP
194: ENDDO
195: IF mexact = "OFF"
196: SET EXACT OFF
197: ENDIF
198: SELECT newenum
199: ENDIF
200: IF m.unique
201: SELECT enum
202: APPEND BLANK
203: m.id = m.uid
204: m.uord = m.uord + 1
205: m.ord = m.uord
206: GATHER MEMVAR
207: SELECT newenum
208: ENDIF
209: SKIP
210: ENDDO
211: USE
212: ENDIF
213: SELECT newdict
214: mgid[reco()] = m.uid
215: SKIP
216: ENDDO
217: USE
218: SELECT dict
219: SET ORDER TO 1
220:
221: * -----
222: * update disease file
223: * -----
224: SELECT disease
225: GOTO BOTTOM
226: m.newid = id
227: m.newid = MAX(m.newid, 10000)
228: m.newid = m.newid + 1
229: SET ORDER TO 2
230:
231: SELECT 0
232: USE (m.new + "disease") ALIAS newdis
233:
234: i = MAX( RECCOUNT(), 1 )
235: PRIVATE mgid, mguid
236: DIMENSION mgid[ i ], mguid[ i ]
237:
238: DO WHILE !EOF()
239: SCATTER MEMVAR MEMO
240: mgid[ RECNO() ] = m.id
241: SELECT disease
242: m.name = UPPER( TRIM( m.name ) )
243: IF LEN( m.name ) > LEN( name )
244: m.name = SUBSTR( m.name, LEN( name ) )
245: ENDIF
246: SEEK m.name
247: IF FOUND()
248: m.exists = .T.
249: m.id = id
250: m.name = name
251: ELSE
252: m.exists = .F.
253: m.id = m.id + m.newid
254: APPEND BLANK
255: ENDIF
256: GATHER MEMVAR MEMO
257:
258:

```

```

324: *-----
325: *-----
326: *-----
327: *-----
328: *-----
329: *-----
330: *-----
331: *-----
332: *-----
333: *-----
334: *-----
=> uses
335: *-----
336: *-----
337: *-----
338: *-----
339: *-----
340: *-----
341: *-----
342: *-----
343: *-----
344: *-----
345: *-----
346: *-----
347: *-----
348: *-----
349: *-----
350: *-----
351: *-----
352: *-----
353: *-----
354: *-----
355: *-----
356: *-----
357: *-----
358: *-----
359: *-----
360: *-----
361: *-----
362: *-----
363: *-----
364: *-----
365: *-----
366: *-----
367: *-----
368: *-----
369: *-----
370: *-----
371: *-----
372: *-----
373: *-----
374: *-----
375: *-----
376: *-----
377: *-----
378: *-----
379: *-----
=> wid
380: *-----
381: *-----
382: *-----
383: *-----
384: *-----
385: *-----
386: *-----
387: *-----

```

```

259: SELECT newdis
260: mguid[reco(j)] = m.id
261: SKIP
262: ENDDO
263: USE
264: SELECT disease
265: SET ORDER TO 1
266: *-----
267: *-----
268: *-----
269: *-----
270: *-----
271: *-----
272: *-----
273: *-----
274: *-----
275: *-----
276: *-----
277: *-----
278: *-----
279: *-----
280: *-----
281: *-----
282: *-----
283: *-----
284: *-----
285: *-----
286: *-----
287: *-----
288: *-----
289: *-----
290: *-----
291: *-----
292: *-----
293: *-----
294: *-----
295: *-----
296: *-----
297: *-----
298: *-----
299: *-----
300: *-----
301: *-----
302: *-----
303: *-----
304: *-----
305: *-----
306: *-----
307: *-----
308: *-----
309: *-----
=> name
310: *-----
311: *-----
312: *-----
313: *-----
314: *-----
315: *-----
316: *-----
317: *-----
318: *-----
319: *-----
320: *-----
321: *-----
322: *-----
323: *-----

```

```

388: DELETE FILE "tempxxxx.dbf"      && remove temporary files
389: *-----
390: *
391: * prepare premise database
392: *-----
393: *
394: *-----
395: SELECT premise
396: PACK
397: GOTO BOTTOM
398: m.premise = clause
399: *
400: * update premises clauses
401: SELECT 0
402: USE (m.new + "premise")
403: COPY TO "tempxxxx"
404: USE ("tempxxxx")
405: REPLACE ALL clause WITH m.premise + clause
406: REPLACE ALL fact WITH m.fact + fact FOR EMPTY(op)
407: USE
408: SELECT premise
409: APPEND FROM ("tempxxxx")
410: DELETE FILE "tempxxxx.dbf"
411: *-----
412: *
413: * prepare action database
414: *-----
415: *
416: *-----
417: *
418: *-----
419: *
420: *-----
421: *
422: * update action clauses
423: SELECT 0
424: USE (m.new + "action")
425: COPY TO "tempxxxx"
426: USE ("tempxxxx")
427: REPLACE ALL ;
428: clause WITH m.action + clause
429: REPLACE ALL id WITH ;
430: IIF(OBJECT = "D", mguid[ ASCAN(mgid, id) ], ;
431: mguid[ ASCAN(mgid, id) ])
432: * update any indirect references
433: GOTO TOP
434: *-----
435: *
436: *-----
437: *
438: *-----
439: *
440: *-----
441: *
442: *-----
443: *
444: *-----
445: *
446: *-----
447: *
448: *-----
449: *
450: *-----
451: *
452: *-----

```

```

453: DELETE FILE "tempxxxx.dbf"      && remove temporary files
454: *-----
455: *
456: * update rulebase
457: *-----
458: *
459: *-----
460: * Count the rules in new knowledge base
461: SELECT 0
462: USE (m.new + "rule")
463: REPLACE area.rules WITH RECCOUNT()      && update record with rule c
=> count
464: COPY TO "tempxxxx"
465: USE ("tempxxxx")
466: REPLACE ALL ;
467: premise WITH m.premise + premise, ;
468: action WITH m.action + action, ;
469: ELSE WITH IIF( ELSE > 0, m.action + ELSE, 0 ), ;
470: area WITH m.area
471: USE
472: *-----
473: *
474: *-----
475: *
476: *-----
477: *
478: *-----
479: *
480: *-----
481: *
482: *-----
483: *
484: *-----
485: *
486: *-----
487: *
488: *-----
489: *
490: *-----
491: *
492: *-----
493: *
494: *-----
495: *
496: *-----
497: *
498: *-----
499: *
500: *-----
501: *
502: *-----
503: *
504: *-----
505: *
506: *-----
507: *
508: *-----
509: *
510: *-----
511: *
512: *-----
513: *
514: *-----
515: *
516: *-----
517: *

```

```

581:      L-ENDIF
582:      L-ENDIF
583:      IF EMPTY( m.s )
584:      m.qual = m.qual + IIF( !EMPTY( m.qual ), "|", "" )
=> +
585:      REPLACE rule.qual WITH m.qual
586:      L-ENDIF
587:      SELECT fact
588:      SKIP
589:      L-ENDDO
590:      SELECT premise
591:      SKIP
592:      L-ENDDO
593:      L-ENDDO
594:      L-ENDDO
595:      * process rule output cross-references      && rule actions
596:      SELECT action
597:      SEEK rule.action
598:      DO WHILE clause = rule.action .AND. !EOF( )
599:      SELECT newqual
600:      SEEK action.id
601:      IF !FOUND( )
602:      APPEND BLANK
603:      REPLACE id WITH action.id, OBJECT WITH action.object
604:      L-ENDIF
605:      REPLACE area WITH m.area
606:      m.rules = ruleso
607:      m.s = ALLTRIM( STR( rule.rule ) )
608:      * check for duplicates
609:      i = AT( m.s, m.rules )
610:      IF i > 0
611:      IF VAL( SUBSTR( m.rules, i ) ) = rule.rule
612:      * skip duplicate entry
613:      m.s = ""
614:      L-ENDIF
615:      L-ENDIF
616:      IF !EMPTY( m.s )
617:      m.rules = m.rules + IIF( !EMPTY( m.rules ), "|", "" ) + m.s
618:      REPLACE ruleso WITH m.rules
619:      L-ENDIF
620:      m.goals = rule.goals
621:      m.s = ALLTRIM( STR( action.id ) )
622:      * check for duplicates
623:      i = AT( m.s, m.goals )
624:      IF i > 0
625:      IF VAL( SUBSTR( m.goals, i ) ) = action.id
626:      * skip duplicate entry
627:      m.s = ""
628:      L-ENDIF
629:      L-ENDIF
630:      IF !EMPTY( m.s )
631:      m.goals = m.goals + IIF( !EMPTY( m.goals ), "|", "" ) + m.s
632:      REPLACE rule-goals WITH m.goals
633:      L-ENDIF
634:      SELECT action
635:      SKIP
636:      L-ENDDO
637:      L-ENDDO
638:      SELECT rule
639:      SKIP
640:      L-ENDDO
641:      * copy qualifier cross-references
642:      SELECT newqual
643:      USE
644:      L-ENDDO
645:      SELECT qual

```

```

APPEND FROM ("tempxxxx")
DELETE FILE "tempxxxx.dbf"
*
* prepare qualifiers
*
*
*
SELECT qual
DELETE FOR area = m.area
PACK
COPY STRUCTURE TO (m.new + "qual.s")
SELECT 0
USE (m.new + "qual.s") ALIAS newqual
INDEX ON id TO (m.new + "qual.s")
SET INDEX TO (m.new + "qual.s")
*
* generate rule ==> qualifier cross-references
*
*
*
SELECT rule
SEEK m.area
&& set filters
&& process the rulebase
&& premise clauses for this r
SEEK rule.premise
DO WHILE clause = rule.premise .AND. !EOF( )
IF EMPTY( premise.op )
SELECT fact
SEEK premise.fact
SELECT newqual
SEEK fact.id
IF !FOUND( )
APPEND BLANK
&& define new qualifier ob
REPLACE id WITH fact.id, OBJECT WITH fact.object
L-ENDIF
REPLACE area WITH m.area
m.rules = rules
m.s = ALLTRIM( STR( rule.rule ) )
* check for duplicates
i = AT( m.s, m.rules )
IF i > 0
IF VAL( SUBSTR( m.rules, i ) ) = rule.rule
* skip duplicate entry
m.s = ""
L-ENDIF
L-ENDIF
IF !EMPTY( m.s )
m.rules = m.rules + IIF( !EMPTY( m.rules ), "|", "" )
REPLACE rules WITH m.rules
L-ENDIF
m.qual = rule.qual
m.s = ALLTRIM( STR( fact.id ) )
* check for duplicates
i = AT( m.s, m.qual )
IF i > 0
IF VAL( SUBSTR( m.qual, i ) ) = fact.id
* skip duplicate entry
m.s = ""
L-ENDIF
L-ENDDO

```

```

646: APPEND FROM (m.new + "quals")
647: DELETE FILE (m.new + "quals.dbf")
648: DELETE FILE (m.new + "quals.idx")
649: DELETE FILE (m.new + "quals.fpt")
650: DELETE FILE (m.new + "area.dbf")
651: DELETE FILE (m.new + "rule.dbf")
652: DELETE FILE (m.new + "rule.dbt")
653: DELETE FILE (m.new + "premise.dbf")
654: DELETE FILE (m.new + "fact.dbf")
655: DELETE FILE (m.new + "fact.dbt")
656: DELETE FILE (m.new + "action.dbf")
657: DELETE FILE (m.new + "action.dbt")
658: DELETE FILE (m.new + "disease.dbf")
659: DELETE FILE (m.new + "disease.dbt")
660: DELETE FILE (m.new + "dict.dbf")
661: DELETE FILE (m.new + "val.dbf")
662: DELETE FILE (m.new + "enum.dbf")
663: DELETE FILE (m.new + "goals.dbf")
664: DELETE FILE (m.new + "display.dbf")
665: DELETE FILE (m.new + "help.dbf")
666: DELETE FILE (m.new + "help.dbt")
667:
668: SELECT area
669: GOTO m.newrecno
670:
671: * close_unuse database
672: SELECT fact
673: USE
674: SELECT premise
675: USE
676: SELECT action
677: USE
678: SELECT rule
679: USE
680:
681: <---RETURN
682:
683: * EOF: KBLDR.act

```



```

62:  _LENDIF
63:  *
64:  *
65:  *
=> 66:  *
=> 67:  *
=> 68:  *
=> 69:  *
70:  *
71:  #REGION 1
72:  EXTERNAL ARRAY act
73:  PRIVATE mselect, mok
74:  mselect = SELECT()
75:  SELECT action
76:  IF EOF()
77:  = errmsg("No < THEN > Statement !!!",1)
78:  RETURN
79:  _LENDIF
80:  *
81:  *
82:  *
83:  *
=> 84:  *
=> 85:  *
=> 86:  *
=> 87:  *
88:  *
89:  #REGION 1
90:  IF WVISIBLE("w_act")
91:  ACTIVATE WINDOW w_act SAME
92:  ELSE
93:  ACTIVATE WINDOW w_act NOSHOW
94:  ENDIF
95:  @ 3,000,47.500 GET mbuttons ;
96:  PICTURE "g*VN \<Edit;\<quit" ;
97:  SIZE 3,000,7.500,1.083 ;
98:  DEFAULT 1 ;
99:  FONT "terminal", 8 ;
100:  VALID _qsf0kox5v(
101:  @ 1,750,2-500 GET ma ;
102:  PICTURE "g&N" ;
103:  FROM act ;
104:  SIZE 10,500,43.375 ;
105:  DEFAULT 1 ;
106:  FONT "terminal", 8 ;
107:  VALID _qsf0kox9d(
108:  IF NOT WVISIBLE("w_act")
109:  ACTIVATE WINDOW w_act
110:  ENDIF
111:  READ CYCLE MODAL
112:  RELEASE WINDOW w_act
113:  *
114:  *
115:  *
116:  *
117:  *

```

08/09/94	ACTION.SPR	09:39:14
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description:		
This program was automatically generated by GENSCRN.		

```

1:  *
2:  *
3:  *
4:  *
5:  *
6:  *
7:  *
8:  *
9:  *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
=> 38: *
=> 39: *
=> 40: *
=> 41: *
=> 42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *

```

```

118: #REGION 0
119: SET readborder &rborder
120:
121: IF m.talkstat = "ON"
122: SET TALK ON
123: ENDIF
124: IF m.compstat = "ON"
125: SET COMPATIBLE ON
126: ENDIF
127:
128:
129:
130:
=> 131:
=> 132:
=> 133:
=> 134:
=> 135:
136:
137: #REGION 1
138: SELECT (mselect)
139: RETURN
140:
141:
142:
143:
144:
145:
146:
147: #REGION 0
148: REGIONAL m.currearea, m.talkstat, m.compstat
149:
150: IF SET("TALK") = "ON"
151: SET TALK OFF
152: m.talkstat = "ON"
153:
154: m.talkstat = "OFF"
155: ENDIF
156: m.compstat = SET("COMPATIBLE")
157: SET COMPATIBLE FOXPLUS
158:
=> 159:
=> 160:
=> 161:
=> 162:
=> 163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
173:

```

```

174:
175:
176:
177:
178:
179:
180:
181:
182:
183:
184:
=> 185:
=> 186:
=> 187:
=> 188:
=> 189:
190:
191:
192:
193:
194:
195:
196:
197:
198:
199:
200:
201:
202:
203:
=> 204:
=> 205:
=> 206:
=> 207:
=> 208:
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210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:

```

```

TO INT((SROW()-15)/2)+14,INT((SCOL()-76)/2)+75 ;
TITLE "Action Editor";
FLOAT ;
CLOSE ;
SHADOW ;
NONMINIMIZE ;
COLOR SCHEME 1
ENDIF
*
*
*
*
*
*
#REGION 1
EXTERNAL ARRAY act
PRIVATE mselect, mOK
mselect = SELECT()
SELECT action
IF EOF()
GOTO BOTTOM
m.clause = IIF(RECCOUNT() = 0, 0, clause) + 1
m.action = addnewact()
ENDIF
*
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_act")
ACTIVATE WINDOW w_act SAME
ELSE
ACTIVATE WINDOW w_act NOSHOW
ENDIF
@ 5,64 GET mbuttons ;
PICTURE "@*VT \<Delete;\<OK;\<Cancel" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID qsfokoxva()
@ 1,64 GET mbutton ;
PICTURE "@*VN \<Edit" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
WHEN ma > 0 ;
VALID qsfokoy5o()
@ 3,64 GET minsbutton ;
PICTURE "@*VN \<Add" ;
SIZE 1,8,1 ;

```

```

291: _CASE mbuttons = 1  && Edit
292:   _IF ma > 0
293:     DO edact
294:   _ENDIF
295: _CASE mbuttons = 2  && Quit
296:   CLEAR READ
297: _ENDCASE
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *
356: *

```

```

230: DEFAULT 1;
231: .VALID _qsfoKoy8a(
232: @ 1,1 GET _ma;
233: PICTURE "##N";
234: FROM act;
235: SIZE 10,61;
236: DEFAULT 1;
237: VALID _qsfoKoycpc( );
238: COLOR SCHEME 2
239:
240: _IF NOT WVISIBLE("w_act")
241:   ACTIVATE WINDOW w_act
242: _ENDIF
243:
244: READ CYCLE MODAL
245:
246: RELEASE WINDOW w_act
247:
248: #REGION 0
249: _IF m.talkstat = "ON"
250:   SET TALK ON
251: _ENDIF
252: _IF m.compstat = "ON"
253:   SET COMPATIBLE ON
254: _ENDIF
255:
256: *
257: =>
258: =>
259: =>
260: =>
261: =>
262:
263: #REGION 1
264: SELECT (mselect)
265: RETURN
266:
267: _ENDCASE
268:
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *

```

```

_ma VALID
Function Origin:
From Platform: Windows
From Screen: ACTION,
Variable: ma Record Number: 3
Called By: VALID Clause
Object Type: List
Snippet Number: 2

```

```

_mbuttons VALID
Function Origin:
From Platform: MS-DOS
From Screen: ACTION,
Variable: mbuttons Record Number: 6
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3

```

```

_mbuttons VALID
Function Origin:
From Platform: Windows
From Screen: ACTION,
Variable: mbuttons Record Number: 2
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 1

```

From Screen: ACTION, Record Number: 7
Variable: mebutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4

FUNCTION _qsf0koy5o && mebutton VALID
#REGION 1
DO edact

_qsf0koy8a minsbutton VALID
Function Origin:
From Platform: MS-DOS
From Screen: ACTION, Record Number: 8
Variable: minsbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 5

FUNCTION _qsf0koy8a && minsbutton VALID

#REGION 1
PRIVATE m.sel
m.sel = SELECT()
m.action = rule.action
SELECT action
APPEND BLANK
REPLACE clause WITH m.action
DO clause.spr WITH m.action
IF EMPTY(op) AND EMPTY(OBJECT) AND EMPTY(id)
DELETE
PACK
ENDIF

SELECT (m.sel)
DO setact
*show get mbbutton enable
*show gets

_qsf0koycp ma VALID
Function Origin:
From Platform: MS-DOS
From Screen: ACTION, Record Number: 9
Variable: ma
Called By: VALID Clause
Object Type: List
Snippet Number: 6

FUNCTION _qsf0koycp && ma VALID
#REGION 1
DO edact

423: *
424: *
425: *
426: *
427: *
428: *
429: *
430: *
431: #REGION 1
432: PROCEDURE edact
433: EXTERNAL ARRAY actr
434: SET TOPIC TO "EDIT"
435: SELECT "ACTION"
436: IF actr[ma] > 0
437: GOTO actr[ma]
438: ENDIF
439: m.clause = rule.action
440: DO clause.spr
441: DO setact
442: SHOW GETS
443: mtopic = ALIAS()
444: SET TOPIC TO &mtopic
445: RETURN
446: *
447: *
448: FUNCTION adnwact
449: PRIVATE m.sel
450: m.sel = SELECT()
451: SELECT action
452: GOTO BOTTOM
453: m.action = IIF(EOF(),0,clause) + 1
454: DO clause.spr WITH m.action
455: SEEK m.action
456: IF FOUND()
457: SELECT rule
458: REPLACE action WITH m.action
459: ENDIF
460: SELECT (m.sel)
461: DO setact
462: RETURN
463: * EOF: ACTION.ac1

ACTION/MS-DOS Supporting Procedures and Functions

```

1:
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3:
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61:

```

08/09/94	ACTELSE.SPR	09:39:18
----------	-------------	----------

Author's Name
Copyright (c) 1994 Company Name
Address
City, Zip

Description:
This program was automatically generated by GENSCRN.

```

* DO CASE
* CASE _WINDOWS
* #REGION 0
* REGIONAL m.currarea, m.talkstat, m.compstat
* IF SET("TALK") = "ON"
* SET TALK OFF
* m.talkstat = "ON"
* ELSE
* m.talkstat = "OFF"
* ENDIF
* m.compstat = SET("COMPATIBLE")
* SET COMPATIBLE FOXPLUS
* m.rborder = SET("READBORDER")
* SET readborder ON
*
* #REGION 1
* IF WVISIBLE("w_act")
* ACTIVATE WINDOW w_act SAME
* ELSE
* ACTIVATE WINDOW w_act NOSHOW
* ENDIF
* @ 4.333,47.750 GET mbuttons ;
* PICTURE "a*VN \<Edit>\<Quit>" ;
* SIZE 2.583,7.500,1.083 ;
* DEFAULT 1 ;
* FONT "terminal", 8 ;
* VALID qsfokp07d(
* @ 2.000,2.375 GET me ;
* PICTURE "a&n" ;
* FROM actelse ;
* SIZE 10.500,43.250 ;
* DEFAULT 1 ;
* FONT "terminal", 8 ;
* VALID qsfokp0ar(
* IF NOT WVISIBLE("w_act")
* ACTIVATE WINDOW w_act
* ENDIF
* READ CYCLE MODAL
* RELEASE WINDOW w_act
* #REGION 0

```

```

62:
63:
64:
65:
=>
66:
=>
67:
=>
68:
=>
69:
=>
70:
71:
72:
73:
74:
75:
76:
77:
78:
79:
80:
81:
82:
=>
83:
=>
84:
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116:
117:

```

ACTELSE/Windows Setup Code - SECTION 2

```

118: SET readborder &rborder
119:
120: IF m.talkstat = "ON"
121: SET TALK ON
122: ENDIF
123: IF m.compstat = "ON"
124: SET COMPATIBLE ON
125: ENDIF
126:
127:
128:
129:
=> 130:
=> 131:
131: ACTELSE/Windows Cleanup Code
=> 132:
=> 133:
=> 134:
134:
135:
136:
137: #REGION 1
138: SELECT (mselect)
139: RETURN
140:
141:
142: CASE _DOS
143:
144: #REGION 0
145: REGIONAL m.curarea, m.talkstat, m.compstat
146:
147: IF SET("TALK") = "ON"
148: SET TALK OFF
149: m.talkstat = "ON"
150: ELSE
151: m.talkstat = "OFF"
152: ENDIF
153: m.compstat = SET("COMPATIBLE")
154: SET COMPATIBLE FOXPLUS
155:
156:
=> 157:
157:
=> 158:
158: MS-DOS Window definitions
=> 159:
=> 160:
=> 161:
161:
162:
163: IF NOT WEXIST("w_act") ;
164: OR UPPER(WTITLE("w_act")) == "W_ACT.PJX" ;
165: OR UPPER(WTITLE("w_act")) == "W_ACT.SCX" ;
166: OR UPPER(WTITLE("w_act")) == "W_ACT.MNX" ;
167: OR UPPER(WTITLE("w_act")) == "W_ACT.PRG" ;
168: OR UPPER(WTITLE("w_act")) == "W_ACT.FRX" ;
169: OR UPPER(WTITLE("w_act")) == "W_ACT.QPR" ;
170: DEFINE WINDOW w_act ;
171: FROM INT((SR0W()-15)/2), INT((SCOL()-76)/2) ;
172: TO INT((SR0W()-15)/2)+14, INT((SCOL()-76)/2)+75 ;
173: TITLE "Action (Else) Editor" ;

```

```

174:
175: FLOAT ;
176: CLOSE ;
177: SHADOW ;
178: NOMINIMIZE ;
179: COLOR SCHEMÉ 1
180:
181: ENDIF
182:
*
=> 183:
=> 184:
184: ACTELSE/MS-DOS Setup Code - SECTION 2
=> 185:
=> 186:
=> 187:
187:
188: #REGION 1
189: EXTERNAL ARRAY actelse
190: PRIVATE mselect, mok
191: mselect = SELECT()
192: SELECT action
193: IF EOF()
194: GOTO BOTTOM
195: m_clause = IIF(RECCOUNT() = 0, 0, clause) + 1
196: m_action = addnewelse()
197: ENDIF
198:
199:
200:
201:
202:
=> 203:
203:
=> 204:
204: ACTELSE/MS-DOS Screen Layout
=> 205:
=> 206:
=> 207:
207:
208: #REGION 1
209: IF WVISIBLE("w_act")
210: ACTIVATE WINDOW w_act SAME
211: ELSE
212: ACTIVATE WINDOW w_act NOSHOW
213: ENDIF
214: @ 5,64 GET mbuttons ;
215: PICTURE "@*VT \<Delete;\<OK;\<Cancel" ;
216: SIZE 1,8,1 ;
217: DEFAULT 1 ;
218: VALID qsf0kp0s3()
219: @ 1,64 GET mebutton ;
220: PICTURE "@*VN \<Edit" ;
221: SIZE 1,8,1 ;
222: DEFAULT 1 ;
223: WHEN me > 0 ;
224: VALID qsf0kp0w3()
225: @ 3,64 GET minsbutton ;
226: PICTURE "@*VN \<Add" ;
227: SIZE 1,8,1 ;
228: DEFAULT 1 ;
229:

```

```
291: DO edelse
292: ENDIF
293: CASE mbuttons = 2  && ok
294: CLEAR READ
295: ENDCASE
296:
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
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327: *
328: *
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332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *
356: *
```

```
230: VALID _qsf0kp0yp()
231: @ 1,1 GET me ;
232: PICTURE "q&n" ;
233: FROM actelse ;
234: SIZE 10,61 ;
235: DEFAULT 1 ;
236: VALID _qsf0kp13m() ;
237: COLOR SCHEME 2
238:
239: IF NOT WISIBLE("w_act")
240: ACTIVATE WINDOW w_act
241: ENDIF
242:
243: READ CYCLE MODAL
244:
245: RELEASE WINDOW w_act
246:
247: #REGION 0
248: IF m.talkstat = "ON"
249: SET TALK ON
250: ENDIF
251: IF m.compstat = "ON"
252: SET COMPATIBLE ON
253: ENDIF
254:
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *
265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *
```

me VALID
Function Origin:
From Platform: Windows Record Number: 3
From Screen: ACTELSE,
me
Variable: VALID Clause
Called By: List
Object Type: 2
Snippet Number:

mbuttons VALID
Function Origin:
From Platform: MS-DOS Record Number: 6
From Screen: ACTELSE,
mbuttons
Variable: VALID Clause
Called By: Push Button
Object Type: 3
Snippet Number:

mbutton VALID
Function Origin:
From Platform: MS-DOS Record Number: 7
From Screen: ACTELSE,

mbuttons VALID
Function Origin:
From Platform: Windows Record Number: 2
From Screen: ACTELSE,
mbuttons
Variable: VALID Clause
Called By: Push Button
Object Type: 1
Snippet Number:

```

357: *
358: * Variable: mebutton
359: * Called By: VALID Clause
360: * Object Type: Push Button
361: * Snippet Number: 4
362: *
363: *
364: * FUNCTION _qsf0kp0w3 && mebutton VALID
365: * #REGION 1
366: * DO edelse.
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
384: *
385: *
386: *
387: *
388: *
389: *
390: *
391: *
392: *
393: *
394: *
395: *
396: *
397: *
398: *
399: *
400: *
401: *
402: *
403: *
404: *
405: *
406: *
407: *
408: *
409: *
410: *
411: *
412: *
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *

```

```

Variable: mebutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4

```

```

FUNCTION _qsf0kp0w3 && mebutton VALID
#REGION 1
DO edelse.

```

```

384: * FUNCTION _qsf0kp0yp && minsbutton VALID
385: * #REGION 1
386: * PRIVATE m.sel
387: * m.sel = SELECT()
388: * SELECT action
389: * IF rule.else = 0
390: * GOTO BOTTOM
391: * m.clause = IIF(RECCOUNT() = 0, 0, clause) + 1
392: * = addresswise()
393: * ELSE
394: * m.action = rule.else
395: * APPEND BLANK
396: * REPLACE clause WITH m.action
397: * DO clause.spr WITH m.action
398: * IF EMPTY(op) AND EMPTY(OBJECT) AND EMPTY(id)
399: * DELETE
400: * PACK
401: * ENDIF
402: * SELECT (m.sel)
403: * DO setelse
404: * SHOW GETS

```

```

Function Origin:
From Platform: MS-DOS
From Screen: ACTELSE,
Variable: me Record Number: 9
Called By: VALID Clause
Object Type: List
Snippet Number: 6

```

```

423: * FUNCTION _qsf0kp13m && me VALID
424: * #REGION 1
425: * DO edelse
426: *
427: *
428: *
429: *
430: *
431: *
432: *
433: *
434: *
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *
453: *
454: *
455: *
456: *
457: *
458: *
459: *
460: *
461: *
462: *
463: *
464: *
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *

```

```

ACTELSE/MS-DOS Supporting Procedures and Functions

```

```

ACTELSE Procedure EDELSE

```

```

#REGION 1
PROCEDURE edelse
DO CASE
CASE DOS
EXTERNAL ARRAY actelser
SET TOPIC TO "EDIT"
SELECT "ACTION"
IF actelser[me] > 0
GOTO actelser[me]
ENDIF
m.clause = rule.else
DO clause.spr
DO setelse
SHOW GETS
mtopic = ALIAS()
SET TOPIC TO &mtopic
RETURN
CASE WINDOWS
EXTERNAL ARRAY actelser
SET TOPIC TO "EDIT"
SELECT "ACTION"
IF actelser[me] > 0
GOTO actelser[me]
ENDIF
m.clause = rule.else
DO clause.spr
DO setelse
SHOW GETS
mtopic = ALIAS()
SET TOPIC TO &mtopic
RETURN
ENDCASE

```

```

ACTELSE Procedure ADELSE

```

```

PROCEDURE adelse

```



```

489: DO CASE
490: CASE DOS
491: EXTERNAL ARRAY actelser
492: SET TOPIC TO "ADD"
493: SELECT "ACTION"
494: SCATTER MEMVAR BLANK
495: m.clause = rule.else
496: DO clause.spr
497: DO setelse
498: SHOW GETS
499: mtopic = ALIAS()
500: SET TOPIC TO &mtopic
501: RETURN
502:
503: CASE WINDOWS
504: EXTERNAL ARRAY actelser
505: SET TOPIC TO "ADD"
506: SELECT "ACTION"
507: SCATTER MEMVAR BLANK
508: m.clause = rule.else
509: DO clause.spr
510: DO setelse
511: SHOW GETS
512: mtopic = ALIAS()
513: SET TOPIC TO &mtopic
514: RETURN
515:
516: ENDCASE
517:
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525:
526: FUNCTION addnewelse
527: PRIVATE m.sel
528: m.sel = SELECT()
529: SELECT action
530: m.action = m.clause
531: DO clause.spr WITH m.action
532: SEEK m.action
533: IF FOUND()
534: SELECT rule
535: REPLACE ELSE WITH m.action
536: ENDIF
537: SELECT (m.sel)
538: DO setelse
539: RETURN
540: *: EOF: ACTELSE.ac1

```

ACTELSE Function ADDNEWELSE


```

=> 123:
=> 124:
=> 125:
=> 126:
=> 127:
128:
129:
130:
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182:
183:
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_clause")
  ACTIVATE WINDOW w_clause SAME
ELSE
  ACTIVATE WINDOW w_clause NOSHOW
ENDIF
@ 11.250,2.500 GET minval ;
  PICTURE "@*IVN " ;
  SIZE 1.167,9.000,1.083 ;
  DEFAULT 0 ;
  FONT "Terminal", 8 ;
  VALID qsf0kp3sz()
@ 4.583,2.625 GET minvbutton ;
  PICTURE "@*IVN " ;
  SIZE 1.250,9.000,1.083 ;
  DEFAULT 0 ;
  FONT "Terminal", 8 ;
  VALID qsf0kp3x2()
@ 11.333,2.625 SAY "<Value>" ;
  FONT "Terminal", 8
@ 4.667,2.625 SAY "<Object>" ;
  FONT "Terminal", 8
@ 1.083,2.625 SAY "Type" ;
  FONT "Terminal", 8
@ 8.167,2.625 SAY "operator" ;
  FONT "Terminal", 8
@ 1.000,43.625 GET mbuttons ;
  PICTURE "@*VT \<OK>\<Cancel>" ;
  SIZE 1.917,7.500,1.083 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsf0kp435()
@ 1.083,12.625 GET mtype ;
  PICTURE "a. Qualifier;Goal" ;
  SIZE 1.500,23.000 ;
  DEFAULT "Qualifier" ;
  FONT "Terminal", 8 ;
  VALID qsf0kp472()
@ 4.583,12.625 GET mobj ;
  SIZE 1.000,23.125 ;
  DEFAULT " " ;
  FONT "Terminal", 8 ;
  DISABLE
@ 7.917,12.500 GET m.op ;
  PICTURE "a. <=>==>=>!=>" ;
  SIZE 1.500,5.000 ;
  DEFAULT "<" ;
  FONT "Terminal", 8
@ 12.917,2.750 EDIT m.val ;
  SIZE 9.167,48.625,0.000 ;
  DEFAULT " " ;
  FONT "Terminal", 8 ;
  SCROLL ;
  DISABLE
184:
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242:
243:
244:

```

```

IF NOT WVISIBLE("w_clause")
  ACTIVATE WINDOW w_clause
ENDIF
READ CYCLE MODAL
RELEASE WINDOW w_clause
#REGION 0
SET readborder &rborder
IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF
*
*
*
*
*
*
#REGION 1
IF mok
  IF m.adding
    APPEND BLANK
    REPLACE clause WITH m_clause
  ENDIF
  m.val = ALLTRIM(m.val)
  GATHER MEMVAR
  IF m.tag = "T" .OR. LEN(m.val) > LEN(VAL)
    REPLACE TEXT WITH m.val, TAG WITH "T", VAL WITH " "
  ENDIF
  IF LEFT(mtype,1) = "G"
    m.temp = rule.goals
    m.search = insnewid(@m.temp,m.id)
  IF m.search
    m.cur = SELECT()
    SELECT rule
    REPLACE goals WITH m.temp
    SELECT (m.cur)
    RELEASE meme m.cur
  ENDIF
ELSE
  m.temp = rule.qual
  m.search = insnewid(@m.temp,m.id)
  IF m.search
    m.cur = SELECT()
    SELECT rule
    REPLACE qual WITH m.temp
    SELECT (m.cur)
    RELEASE meme m.cur
  ENDIF
ENDIF
ELSE
  IF mrecno[1] > 0

```

CLAUSE/Windows Cleanup Code

```

306: SELECT dict
307: GOTO mrecno[1]
308: ENDIF
309: IF mrecno[2] > 0
310: SELECT disease
311: GOTO mrecno[2]
312: ENDIF
313: ENDIF
314: SELECT (mselect)
315: RETURN
316: CASE _DOS
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
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353: *
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356: *
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358: *
359: *
360: *
361: *

```

```

245: SELECT dict
246: GOTO mrecno[1]
247: ENDIF
248: IF mrecno[2] > 0
249: SELECT disease
250: GOTO mrecno[2]
251: ENDIF
252: ENDIF
253: SELECT (mselect)
254: RETURN
255: CASE _DOS
256: *
257: *
258: *
259: *
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261: *
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263: *
264: *
265: *
266: *
267: *
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305: *

```



```

489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
=> pe = "M"
507: *
508: *
509: *
510: *
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618: *
619: *

```

From Platform: Windows
 From Screen: minval
 Variable: minval
 Called By: VALID Clause
 Snippet Number: 1

```

FUNCTION _qsfokp3sz && minval VALID
#REGION 1_
DO CASE
CASE m.object = "S"
CASE dict.datatype = "N" .OR. dict.datatype = "C"
SHOW GET m.val ENABLE
CUROBJ = OBJNUM(m.val)
CASE dict.datatype = "L" .OR. dict.datatype = "E" .OR. dict.datatype
=> pe = "M"
SELECT enum
BROWSE FOR id = dict.id NOEDIT
m.val = ALLTRIM(enumerate)
SELECT (mselect)
ENDCASE
CASE m.object = "D"
SHOW GET m.val ENABLE
CUROBJ = OBJNUM(m.val)
ENDCASE
SHOW GETS

```

minvbutton VALID
 Function Origin:
 From Platform: Windows
 From Screen: minvbutton
 Variable: minvbutton
 Called By: VALID Clause
 Snippet Number: 2

```

FUNCTION _qsfokp3x2 && minvbutton VALID
#REGION 1_
PRIVATE msel
msel = SELECT()
DO CASE
CASE m.object = "S"
SELECT dict
IF datatype = "N" .OR. datatype = "C"
SHOW GET m.val ENABLE
ELSE
SHOW GET m.val DISABLE
ENDIF
CASE m.object = "D"
SELECT disease
SHOW GET m.val ENABLE
ENDCASE
BROWSE NOEDIT
m.id = id
mobj = name
SELECT (msel)
SHOW GETS

```

_qsfokp435
 Function Origin: mbuttons VALID
 Record Number: 8
 From Platform: Windows
 From Screen: mbuttons
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

```

FUNCTION _qsfokp435 && mbuttons VALID
#REGION 1_
DO CASE
CASE mbuttons = 1 && delete
m.sure = yesno("sure you want to delete?", "YES", "NO")
IF m.sure
delete
ENDIF
CASE m.id = 0
m.op = " "
m.val = " "
m.ok = .f.
CASE mbuttons = 1 && ok
m.ok = .t.
CASE mbuttons = 2 && cancel
m.ok = .f.
ENDCASE

```

_qsfokp472
 Function Origin: mtype VALID
 Record Number: 9
 From Platform: Windows
 From Screen: mtype
 Variable: mtype
 Called By: VALID Clause
 Object Type: Popup
 Snippet Number: 4

```

FUNCTION _qsfokp472 && mtype VALID
#REGION 1_
m.object = LEFT(mtype, 1)
m.object = CHRTRAN(m.object, '0a', 'DS')
IF m.object = "S"
SELECT dict
IF datatype = "N" .OR. datatype = "C"
SHOW GET m.val ENABLE
ELSE
SHOW GET m.val DISABLE
ENDIF
ELSE
SELECT disease
SHOW GET m.val ENABLE
ENDIF

```

```

620: m.id = id
621: mobj = name
622: SELECT (mselect)
623: SHOW GETS
624:
625:
626:
627:
628:
629:
630:
631:
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638:
639:
640:

```

```

_QSF0KP5HS      mtype VALID
Function Origin:
From Platform:  MS-DOS
From Screen:   CLAUSE,
Variable:     mtype      Record Number:  21
Called By:    VALID Clause
Object Type:   Popup
Snippet Number: 5

```

```

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684:
=> pe = "N"

```

```

FUNCTION _qsf0kp5hs      && mtype VALID
#REGION 1
m.object = LEFT( mtype, 1 )
m.object = CHRTRAN( m.object, 'GQ', 'DS' )
IF m.object = "S"
  SELECT dict
  IF datatype = "N" .OR. datatype = "C"
    SHOW GET m.val ENABLE
  ELSE
    SHOW GET m.val DISABLE
  ENDIF
ELSE
  SELECT disease
  SHOW GET m.val ENABLE
ENDIF
m.id = id
mobj = name
SELECT (mselect)
SHOW GETS

```

```

_QSF0KP5LZ      minval VALID
Function Origin:
From Platform:  MS-DOS
From Screen:   CLAUSE,
Variable:     minval    Record Number:  22
Called By:    VALID Clause
Snippet Number: 6

```

```

FUNCTION _qsf0kp5lz      && minval VALID
#REGION 1
CASE m.object = "S"
DO CASE
CASE dict.datatype = "N" .OR. dict.datatype = "C"
  SHOW GET m.val ENABLE
CUROBJ = OBJNUM(m.val)
CASE dict.datatype = "L" .OR. dict.datatype = "E" .OR. dict.datatype

```

```

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749:
750:

```

```

SELECT enum
BROWSE FOR id = dict.id NOEDIT
m.val = ALLTRIM(enumerate)
SELECT (mselect)
ENDCASE
CASE m.object = "D"
  SHOW GET m.val ENABLE
CUROBJ = OBJNUM(m.val)
ENDCASE
SHOW GETS

```

```

_QSF0KP5Q1      minvbutton VALID
Function Origin:
From Platform:  MS-DOS
From Screen:   CLAUSE,
Variable:     minvbutton Record Number:  23
Called By:    VALID Clause
Snippet Number: 7

```

```

FUNCTION _qsf0kp5q1      && minvbutton VALID
PRIVATE msel
msel = SELECT()
DO CASE
CASE m.object = "S"
  SELECT dict
  IF datatype = "N" .OR. datatype = "C"
    SHOW GET m.val ENABLE
  ELSE
    SHOW GET m.val DISABLE
  ENDIF
CASE m.object = "D"
  SELECT disease
  SHOW GET m.val ENABLE
ENDCASE
BROWSE NOEDIT
m.id = id
mobj = name
SELECT (mselect)
SHOW GETS

```

```

_QSF0KP5UC      mbuttons VALID
Function Origin:
From Platform:  MS-DOS
From Screen:   CLAUSE,
Variable:     mbuttons   Record Number:  24
Called By:    VALID Clause
Object Type:   Push Button
Snippet Number: 8

```

```

FUNCTION _qsf0kp5uc      && mbuttons VALID
#REGION 1

```

```

751: DO CASE
752: *case mbuttons = 1  && delete
753: * m.sure = yesno("Sure you want to delete?", "YES", "NO")
754: * IF m.sure
755: *   delete
756: *   pack
757: *   ENDIF
758: *   m.id = 0
759: *   m.op = " "
760: *   m.val = " "
761: *   mok = .f.
762: *CASE mbuttons = 1  && ok
763: mok = .t.
764: *CASE mbuttons = 2  && cancel
765: mok = .f.
766: ENDCASE

```

CLAUSE/MS-DOS Supporting Procedures and Functions

```

*
*
*
*
*
*

```

```

775: #REGION 1
776: FUNCTION insnewid
777: PARAMETER mdata, mitem
778: PRIVATE m.temp, m.search
779: m.temp = ALLTRIM(mdata)
780: m.search = .F.
781: DO WHILE !EMPTY(m.temp)
782:   m.t1 = dp(m.temp, "||", 1)
783:   m.temp = dp(m.temp, "||", 2, 999)
784:   IF VAL(m.t1) = mitem
785:     m.search = .T.
786:     EXIT
787:   ENDIF
788: ENDDO
789: IF !m.search
790:   mdata = ALLTRIM(mdata) + IIF(EMPTY(mdata), "", "|") + ALLTRIM(STR(mi
->tem))
791: ENDIF
792: RETURN m.search
793:
794:
795: FUNCTION setobject
796: PARAMETER m.object, mtype
797: IF "ACTION,DBF" $ DBF()
798:   m.object = "D"
799:   mtype = "Goal"
800: ELSE
801:   m.object = "S"
802:   mtype = "Qualifier"
803: ENDIF
804: RETURN
805: * EOF: CLAUSE.ac1

```



```

1: *****
=> *****
2: * Procedure file: C:\AMD2\KBEDIT\WORK\DP.PRG
3: * System: Knowledge Base Editor
4: * Author: Hoa L. Ly
5: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7: * Last modified: 03/15/93 at 9:30:48
8: *
9: * Set by: INSNEWID() (function in CLAUSE.SPR)
10: *
11: * Documented 15:01:02 FoxDoc versio
=> n 3.00a
12: *****
=> *****
13: * *****
=> *****
14: * Date: 08/04/92 10:01:15
15: * Program Name: DP.PRG
16: * Author's Name: Hoa Le Ly
17: *
18: * Copyright (c) 1992 Company Name: NHRC
19: * Department: Code 22
20: * San Diego, CA 92138 - 5122
21: * Description: This program emulate $PIECE of MUMPS function. Which
=> return the
22: * the portion of string which is bounded by the characters in deli
=> miter. If both
23: * expr and expr2 are present, the value returned includes all char
=> actors from
24: * the expr2th
25: * occurrence of delimiter. If expr2 is not present. it is assumed
=> to have the same
26: * value as expr. If expr1 is not present. Then its value is assu
=> me to be 1
27: * SYNTAX: DP(string, delimiter[,expr1,expr2])
28: * PARAMETER: string: Character expression which character extract fro
=> m
29: * delimiter: Character to delimiter
30: * expr: start of number occurrence of delimiter
31: * expr2: number of occurrence delimiter
32: * eg: string = "last, first'age date of birth"
33: * ?dp(string,"u",1) ==> last, first'age
34: * ?dp(string,"u",1,2) ==> last, first'age
35: * *****
=> *****
36: PARAMETER ms,mm,mp,mp2
37: PRIVATE ALL
38: DO CASE
39: CASE PARAMETER() < 2
40: RETURN ""
41: CASE PARAMETER() = 2
42: mp = 1
43: mp2 = -1
44: CASE PARAMETER() = 3
45: IF TYPE("mp") != ""
46: RETURN ""
47: ELSE
48: IF mp < 1
49: RETURN ""
50: ENDIF
51: ENDIF
52: mp2 = -1
53:

```

```

54: CASE PARAMETER() = 4
55: IF TYPE("mp") != ""
56: RETURN ""
57: ENDIF
58: IF TYPE("mp2") = ""
59: mp2 = IIF(mp >= mp2, -1, mp2)
60: ELSE
61: mp2 = -1
62: ENDIF
63: ENDCASE
64: IF TYPE("ms") != "C"
65: ms = STR(ms)
66: ENDIF
67: moccurs = OCCURS(mm,ms)
68: IF moccurs = 0
=> mp=1&(ms'(mm))
69: mstr = IIF(mp = 1, ms, "")
=> ms'(mm)
70: RETURN mstr
71: ENDIF
72: mbegin = IIF(mp = 1, 1, (AT(mm,ms,(mp-1))+1))
73: IF mp2 = -1
74: mend = AT(mm,ms,mp) - 1
75: IF mbegin < 0
76: IF mbegin > 1
77: mend = LEN(ms)
78: ELSE
79: RETURN ""
80: ENDIF
81: ELSE
82: mend = AT(mm,ms,mp2) - 1
83: mend = IIF(mend<0,LEN(ms),mend)
84: ENDIF
85: mstr = SUBSTR(ms, mbegin, (mend - mbegin + 1))
86: RETURN mstr
87: * EOF: DP.act
88:

```

```

1:  * *****
=> => *****
2:  * Procedure file: C:\CAMD2\KBEDIT\WORKW\RESTORE.PRG
3:  * System: Knowledge Base Editor
4:  * Author: Hoa L. Ly
5:  * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7:  * Last modified: 06/03/94 at 9:26:30
8:  * Set by: KBMENU.MPR
9:  * Calls: RESTORE.SPR
10: * Documented 15:01:02
11: * FoxDoc versio
=> n 3.00a
14: * *****
=> => *****
15: * -----
=> => -----
16: * Restore data files
17: * Programmer: HLL
18: * PROCEDURE restore
19: * -----
=> => -----
20: PUBLIC mscreen
21: PRIVATE MESSAGE
22: SET TALK OFF
23: SAVE SCREEN TO mscreen
24: MESSAGE = "Restore Knowledge Base database"
25: SET TOPIC TO "RESTORE"
26: DO restore.spr WITH MESSAGE
27: RESTORE SCREEN FROM mscreen
28: <---RETURN
29: * EOF: RESTORE.act

```



```

118: @ 4,750,1,500 EDIT m.explain ;
119: SIZE 7,583,60,375,0,000 ;
120: DEFAULT " " ;
121: FONT "Terminal", 8 ;
122: SCROLL
123: @ 14,500,1,500 EDIT m.note ;
124: SIZE 7,333,60,125,0,000 ;
125: DEFAULT " " ;
126: FONT "Terminal", 8 ;
127: SCROLL

```

```

128: IF NOT WVISIBLE("w_rule")
129: ACTIVATE WINDOW w_rule
130: ENDIF

```

```

131: READ CYCLE MODAL

```

```

132: RELEASE WINDOW w_rule

```

```

133: #REGION 0

```

```

134: SET readborder &rborder

```

```

135: IF m.talkstat = "ON"

```

```

136: SET TALK ON

```

```

137: ENDIF

```

```

138: IF m.compstat = "ON"

```

```

139: SET COMPATIBLE ON

```

```

140: ENDIF

```

141: *

142: *

143: *

144: *

145: *

146: *

147: *

148: *

149: =>

150: *

151: *

152: =>

153: *

154: *

155: *

156: *

157: *

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170: *

171: *

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173: *

174: *

175: *

176: =>

177: *

RULE/Windows Cleanup Code

177: =>

178: *

179: =>

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206: =>

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209: *

210: *

211: *

212: *

213: *

214: *

215: *

216: *

217: *

218: =>

219: *

220: *

221: *

222: *

223: *

224: *

225: *

226: *

227: *

228: *

229: *

```

* IF NOT WEXIST("w_rule") ;
* OR UPPER(WTITLE("w_rule")) == "W_RULE.PJX" ;
* OR UPPER(WTITLE("w_rule")) == "W_RULE.SCX" ;
* OR UPPER(WTITLE("w_rule")) == "W_RULE.MNX" ;
* OR UPPER(WTITLE("w_rule")) == "W_RULE.PRG" ;
* OR UPPER(WTITLE("w_rule")) == "W_RULE.FRX" ;
* OR UPPER(WTITLE("w_rule")) == "W_RULE.QPR" ;
* DEFINE WINDOW w_rule ;
* FROM INT((SROW()-20)/2),INT((SCOL()-76)/2) ;
* TO INT((SROW()-20)/2)+19,INT((SCOL()-76)/2)+75 ;
* TITLE "Rule Object Editor" ;
* FLOAT ;
* CLOSE ;
* SHADOW ;
* NOMINIMIZE ;
* COLOR SCHEME 1
* ENDIF

```

RULE/MS-DOS Setup Code - SECTION 2

```

* #REGION 1
* PRIVATE msel
* msel = SELECT()
* SELECT rule
* SET FILTER TO area = area.area
* SCATTER MEMO MEMVAR
* m.adding = .F.
* m.oldrec = RECNO()

```

RULE/MS-DOS Screen Layout

```

* #REGION 1
* IF WVISIBLE("w_rule")
* ACTIVATE WINDOW w_rule SAME
* ELSE
* ACTIVATE WINDOW w_rule NOSHOW
* ENDIF

```


Function Origin:
 From Platform: MS-DOS
 From Screen: RULE, Record Number: 18
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

```

357: *
358: *
359: *
360: *
361: *
362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: FUNCTION _qsfoKpa7j    && mbuttons VALID
370: #REGION 1
371: DO CASE
372:   m.del = yesno("sure you want delete?","YES","NO")
373:   IF m.del
374:     m.sel = SELECT()
375:     SET TOPIC TO "DELETE"
376:     SELECT premise
377:     DELETE FOR clause = m.premise
378:     PACK
379:     SELECT action
380:     DELETE FOR clause = m.action
381:     PACK
382:     SELECT rule
383:     DELETE
384:     PACK
385:     COUNT TO m.rules
386:     SELECT area
387:     REPLACE rules WITH m.rules
388:     SELECT (m.sel)
389:   ENDIF
390:   SCATTER MEMO MEMVAR
391:   SET TOPIC TO "RULE"
392:   CASE mbuttons = 2  && ok
393:     IF m.adding
394:       APPEND BLANK
395:       GATHER MEMVAR MEMO
396:       m.recno = RECNO()
397:       COUNT TO m.rules
398:       GOTO m.recno
399:       m.sel = SELECT()
400:       SELECT area
401:       REPLACE rules WITH m.rules
402:       SELECT (m.sel)
403:     ELSE
404:       GATHER MEMVAR MEMO
405:     ENDIF
406:   CASE mbuttons = 3  && cancel
407:     GOTO m.oldrec
408:     SCATTER MEMO MEMVAR
409:   ENDCASE
410: *
411: *: EOF: RULE.ac1
    
```



```

118: IF NOT WVISIBLE("w_term")
119:   ACTIVATE WINDOW w_term
120: ENDIF
121:
122: READ CYCLE MODAL
123:
124: RELEASE WINDOW w_term
125:
126: #REGION 0
127: SET readborder &rborder
128:
129: IF m.talkstat = "ON"
130:   SET TALK ON
131: ENDIF
132: IF m.compstat = "ON"
133:   SET COMPATIBLE ON
134: ENDIF
135:
136:
137:
138:
139:

```

TERM/Windows Cleanup Code

```

140:
141:
142:
143:
144:
145:
146: #REGION 1
147: RETURN .I.
148:
149:
150:
151:
152:
153:
154: #REGION 0
155: REGIONAL m.currearea, m.talkstat, m.compstat
156:
157: IF SET("TALK") = "ON"
158:   SET TALK OFF
159:   m.talkstat = "ON"
160: ELSE
161:   m.talkstat = "OFF"
162: ENDIF
163: m.compstat = SET("COMPATIBLE")
164: SET COMPATIBLE FOXPLUS
165:
166:
167:
168:
169:
170:
171:
172:
173:

```

MS-DOS Window definitions

```

174: IF NOT WEXIST("w_term") ;
175: OR UPPER(WTITLE("w_term")) == "w_term.pjx" ;

```

```

174:
175: OR UPPER(WTITLE("w_term")) == "w_term.scx" ;
176: OR UPPER(WTITLE("w_term")) == "w_term.mnx" ;
177: OR UPPER(WTITLE("w_term")) == "w_term.prg" ;
178: OR UPPER(WTITLE("w_term")) == "w_term.frx" ;
179: OR UPPER(WTITLE("w_term")) == "w_term.qpr" ;
180: DEFINE WINDOW w_term ;
181: FROM INT((SR0M()-19)/2), INT((SCOL()-76)/2) ;
182: TO INT((SR0M()-19)/2)+18, INT((SCOL()-76)/2)+75 ;
183: TITLE "Term Editor" ;
184: FLOAT ;
185: CLOSE ;
186: SHADOW ;
187: NOMINIMIZE ;
188: COLOR SCHEME 1
189:
190:
191:
192:
193:
194:
195:
196:
197:
198: #REGION 1
199: EXTERNAL ARRAY premr, premo, triple
200: PRIVATE mselect, mok
201: mselect = SELECT()
202: SELECT premo
203: IF EOF()
204:   PRIVATE m.flag = .F.
205:   GOTO BOTTOM
206:   m.clause = IIF(EOF(),0, clause) + 1
207:   m.flag = addfact()
208:   IF m.flag
209:     PRIVATE m.sel
210:     m.sel = SELECT()
211:     SELECT rule
212:     REPLACE premo WITH m.c.clause
213:     SELECT (m.sel)
214:   ENDIF
215: ENDIF
216:
217:
218:
219:
220:
221:
222:
223:
224:
225: #REGION 1
226: IF WVISIBLE("w_term")
227:   ACTIVATE WINDOW w_term SAME
228: ELSE
229:   ACTIVATE WINDOW w_term NOSHOW

```

TERM/MS-DOS Setup Code - SECTION 2

TERM/MS-DOS Screen Layout


```

230: _ENDIF
231: @ 9,63 GET mbuttons ;
232: PICTURE "a*VT \<Delete;\<OK;\<Cancel" ;
233: SIZE 1,8,1 ;
234: DEFAULT 1 ;
235: VALID qsf0kpcpm()
236: PICTURE "a*VN \<AND" ;
237: SIZE 1,8,1 ;
238: DEFAULT 1 ;
239: VALID qsf0kpcu9()
240: PICTURE "a*VN \<OR" ;
241: SIZE 1,8,1 ;
242: DEFAULT 1 ;
243: VALID qsf0kpcwu()
244: PICTURE "a*VN \<Edit" ;
245: SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: WHEN mp > 0 ;
248: VALID qsf0kpczg()
249: PICTURE "a*VN \<Insert" ;
250: SIZE 1,8,1 ;
251: DEFAULT 1 ;
252: VALID qsf0kpcdz()
253: PICTURE "a*VN \<mp" ;
254: SIZE 1,8,1 ;
255: FROM prem ;
256: SIZE 17,59 ;
257: DEFAULT 1 ;
258: VALID qsf0kpd51() ;
259: COLOR SCHEME 2
260:
261:
262:
263:
264:
265: IF NOT WVISIBLE("w_term")
266: ACTIVATE WINDOW w_term
267: _ENDIF
268:
269: READ CYCLE MODAL
270:
271: RELEASE WINDOW w_term
272:
273: #REGION 0
274: IF m.talkstat = "ON"
275: SET TALK ON
276: _ENDIF
277: IF m.compstat = "ON"
278: SET COMPATIBLE ON
279: _ENDIF
280:
281:
282:
283:
284:
285:
286:
287:
288:
289: #REGION 1
290: RETURN .T.

```

```

291: _ENDCASE
292:
293: *
294: *
295: *
296: *
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *
356: *

```

```

_QSFOKPC3R      mp VALID
Function Origin:
From Platform:  Windows      Record Number:  2
From Screen:   TERM,
Variable:      mp           VALID Clause
Called By:     List
Object Type:   1
Snippet Number: 1

```

```

FUNCTION _qsf0kpc3r  && mp VALID
#REGION 1
DO edprem

```

```

_QSFOKPC6D      mbuttons VALID
Function Origin:
From Platform:  Windows      Record Number:  3
From Screen:   mbuttons
Variable:      mbuttons   VALID Clause
Called By:     Push Button
Object Type:   2
Snippet Number: 2

```

```

FUNCTION _qsf0kpc6d  && mbuttons VALID
#REGION 1
DO CASE
CASE mbuttons = 1  && Edit
IF mp > 0
DO edprem
ENDIF
CASE mbuttons = 2  && cancel
mok = .T.
CASE mbuttons = 3  && .F.
CLEAR READ
ENDIF
ENDCASE

```

```

_QSFOKPCPM      mbuttons VALID
Function Origin:
From Platform:  MS-DOS      Record Number:  6
From Screen:   TERM,
Variable:      mbuttons   VALID Clause
Called By:     Push Button
Object Type:   3
Snippet Number: 3

```

```

357: * FUNCTION _qsf0kpcpm      && mbutton VALID
358: #REGION 1
359: DO CASE
360:     CASE mbuttons = 1      && DELETE
361:     SEEK rule.premise
362:     DO WHILE clause = rule.premise
363:     IF EMPTY(premise.op)
364:     SELECT fact
365:     DELETE FOR clause = premise.fact
366:     SELECT premise
367:     ENDIF
368:     DELETE
369:     SKIP
370:     ENDDO
371:     SELECT fact
372:     * pack
373:     SELECT premise
374:     * pack
375:     mok = .F.
376:     CASE mbuttons = 2      && ok
377:     mok = .T.
378:     CASE mbuttons = 3      && cancel
379:     mok = .F.
380:     ENDCASE
381:
382: *
383: *
384: *
385: *
386: *
387: *
388: *
389: *
390: *
391: *
392: *
393: *
394: *
395: *
396: *
397: *
398: *
399: *
400: *
401: *
402: *
403: *
404: *
405: *
406: *
407: *
408: *
409: *
410: *
411: *
412: *
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *

```

```

_QSF0KPCU9
Function Origin:
From Platform: MS-DOS
From Screen: TERM,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
Record Number: 7

```

```

423: * FUNCTION _qsf0kpcu9      && mbutton VALID
424: #REGION 1
425: =setjoin("&")
426: *
427: *
428: *
429: *
430: *
431: *
432: *
433: *
434: *
435: *
436: *
437: *
438: *
439: *
440: *
441: *
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472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *

```

```

_QSF0KPCUW
Function Origin:
From Platform: MS-DOS
From Screen: TERM,
Variable: morbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 5
Record Number: 8

```

```

489: * FUNCTION _qsf0kpcwu      && morbutton VALID
490: #REGION 1
491: =setjoin("&")
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *

```

```

_QSF0KPCZG
Function Origin:
From Platform: MS-DOS
From Screen: TERM,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 6
Record Number: 9

```

```

523: * FUNCTION _qsf0kpczg      && mbutton VALID
524: #REGION 1
525: DO edprem
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *
541: *
542: *
543: *
544: *
545: *
546: *
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610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: *
621: *
622: *

```

```

_QSF0KPD1Z
Function Origin:
From Platform: MS-DOS
From Screen: TERM,
Variable: minsbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 7
Record Number: 10

```

```

623: * FUNCTION _qsf0kpd1z      && minsbutton VALID
624: #REGION 1
625: m.clause = rule.premise
626: = addfact()
627: SHOW GET mbutton ENABLE
628: SHOW GETS
629: *
630: *
631: *
632: *
633: *
634: *
635: *
636: *
637: *
638: *
639: *
640: *
641: *
642: *
643: *
644: *
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669: *
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671: *
672: *
673: *
674: *
675: *
676: *
677: *
678: *
679: *
680: *
681: *
682: *
683: *
684: *
685: *
686: *
687: *
688: *

```

```

_QSF0KPD51
Function Origin:
From Platform: MS-DOS
From Screen: TERM,
Variable: mp
Called By: VALID Clause
Object Type: List
Snippet Number: 8
Record Number: 11

```

```

689: * FUNCTION _qsf0kpd51      && mp VALID
690: #REGION 1
691: DO edprem
692: *
693: *
694: *
695: *
696: *
697: *
698: *
699: *
700: *
701: *
702: *
703: *
704: *
705: *
706: *
707: *
708: *
709: *
710: *
711: *
712: *
713: *
714: *
715: *
716: *
717: *
718: *
719: *
720: *
721: *
722: *
723: *
724: *
725: *
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728: *
729: *
730: *
731: *
732: *
733: *
734: *
735: *
736: *
737: *
738: *
739: *
740: *
741: *
742: *
743: *
744: *
745: *
746: *
747: *
748: *
749: *
750: *
751: *
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753: *
754: *
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759: *
760: *
761: *
762: *
763: *
764: *
765: *
766: *
767: *
768: *
769: *
770: *
771: *
772: *
773: *
774: *
775: *
776: *
777: *
778: *
779: *
780: *
781: *
782: *
783: *
784: *
785: *
786: *
787: *
788: *

```

```

TERM/MS-DOS Supporting Procedures and Functions

```

```

489: *
490: #REGION 1
491: PROCEDURE edprem
492: EXTERNAL ARRAY prem, premr, triple
493: SET TOPIC TO "EDIT"
494: SELECT fact
495: K = premr[mp]
496: IF triple[k,2] > 0
497:   SEEK triple[k,2]
498: ELSE
499:   * empty fact list; add insert fact !!!
500:   ENDIF
501: m.clause = premise.fact
502: DO clause.spr
503: SELECT premise
504: DO setprem
505: SHOW GETS
506: mtopic = ALIAS()
507: SET TOPIC TO &mtopic
508: RETURN
509:
510:
511: FUNCTION setjoin
512: PARAMETERS joinop
513: IF mp > 0
514:   K = VAL(premo[mp])
515:   IF K > 0
516:     triple[k,1] = joinop
517:     IF triple[k,5] > 0
518:       GOTO triple[k,5]
519:       REPLACE premise.op WITH joinop
520:     ENDIF
521:   ENDIF
522: ENDIF
523: DO setprem
524: SHOW GETS
525: RETURN joinop
526:
527:
528: FUNCTION lastfact
529: SELECT premise
530: IF EOF()
531:   m.fact = 0
532: ELSE
533:   m.fact = fact
534: ENDIF
535: SELECT fact
536: RETURN m.fact
537:
538: FUNCTION addfact
539: PRIVATE m.sel, m.flag
540: m.sel = SELECT()
541: m.flag = .F.
542: SELECT fact
543: GOTO BOTTOM
544: m.fact = IIF(EOF(), 0, clause) + 1
545: DO clause.spr WITH m.fact
546: SEEK m.fact
547: IF FOUND()
548:   SELECT premise
549:   APPEND BLANK
550:   REPLACE clause WITH m.clause
551:   REPLACE fact WITH m.fact
552:   m.flag = .T.
553: ENDIF
554: SELECT (m.sel)

```

```

555: DO setprem
556: RETURN m.flag
557: *: EOF: TERM.ac1

```

```

1: *****
2: *
3: * Procedure file: C:\AMD2\KBEDIT\WORK\KBDELETE.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 7: * Last modified: 07/27/94 at 10:47:58
8: *
9: * Set by: _QSF0K0KEUC() (function in KBDEL.SPR)
10: * : _QSF0K0K0PT() (function in KBDEL.SPR)
11: *
12: * Uses: FACT.DBF
13: * : PREMISE.DBF
14: * : ACTION.DBF
15: * : RULE.DBF
16: *
17: * Indexes: FACT.IDX
18: * : PREMISE.IDX
19: * : ACTION.IDX
20: * : RULEAREA.IDX
21: * : SALIENCE.IDX
22: * : RULE.IDX
23: *
24: * Documented 15:01:04 FoxDoc versio
=> 25: n 3,00a
26: * *****
27: * kbdelete.prg
28: * PARAMETERS m.name && name of knowledge base
29: *
30: * * Removes rules and their associated premise, action clauses
31: * * from the knowledge base.
32: *
33: * * Lookup the name in the knowledge base file &&
34: * * SELECT area &&
35: * * LOCATE FOR LOWER(name) = LOWER(m.name) && lookup by name (case inse
=> ns(itive)
36: * IF IFOUND() &&
37: * * unknown knowledge base &&
38: * * RETURN &&
39: * * ENDIF &&
40: *
41: * * open database
42: * * SELECT 0
43: * * USE fact INDEX fact
44: * * SELECT 0
45: * * USE premise INDEX premise
46: * * SET RELATION TO fact INTO fact
47: * * SELECT 0
48: * * USE action INDEX action
49: * * SELECT 0
50: * * USE rule INDEX rulearea,salience,rule
51: * * SET RELATION TO premise INTO premise, action INTO action
52: * * SELECT area
53: * * SET RELATION TO area INTO rule
54: *
55: * * delete rules and clauses in knowledge base &&
56: * * SELECT rule &&
57: * * SEEK area.area
58: * * DO WHILE area = area.area .AND. !EOF()
59: * * SELECT premise
60: * * SEEK rule.premise
61: * * DO WHILE clause = rule.premise

```

```

62: * * IF EMPTY(premise.op)
63: * * SELECT fact
64: * * DELETE FOR clause = premise.fact && delete all premise cla
=> uses
65: * * L-NDIF
66: * * SELECT premise
67: * * DELETE
68: * * SKIP
69: * * ENDDO
70: * * SELECT action
71: * * DELETE FOR clause = rule.action && delete all action clauses
72: * * DELETE FOR clause = rule.else && delete all else clauses
73: * * SELECT rule
74: * * DELETE
75: * * SKIP
76: * * ENDDO && delete the rule
77: *
78: * * delete goals and qualifiers in knowledge base
79: * * SELECT goals
80: * * DELETE FOR area = area.area
81: * * PACK
82: * * SELECT DISPLAY
83: * * DELETE FOR area = area.area
84: * * PACK
85: * * SELECT quals
86: * * DELETE FOR area = area.area
87: * * PACK
88: *
89: * * update premise database && purge premises
90: * * SELECT premise
91: * * PACK
92: *
93: * * update fact database && purge facts
94: * * SELECT fact
95: * * PACK
96: *
97: * * update action database && purge actions
98: * * SELECT action
99: * * PACK
100: *
101: * * update rulebase &&
102: * * SELECT rule && purge rules
103: * * PACK
104: *
105: * * update area database && indicate no rules
106: * * SELECT area
107: * * *replace rules with 0
108: * * PRIVATE m.recno
109: * * m.recno = RECCNO()
110: * * DELETE
111: * * PACK
112: * * IF m.recno > RECCOUNT()
113: * * GOTO BOTTOM
114: * * ELSE
115: * * GOTO m.recno
116: * * ENDIF
117: *
118: * * close unused database
119: * * SELECT fact
120: * * USE
121: * * SELECT premise
122: * * USE
123: * * SELECT action
124: * * USE
125: * * SELECT rule
126: * * USE

```

127:
128: * finish up
129: ← RETURN
130:
131: *: EOF: KBDELETE.act


```

235: @ 4,10 GET m.name ;
236: SIZE 1,38 ;
237: DEFAULT " " ;
238: VALID qsf0kpgsr()
239: @ 6,8 GET m.id ;
240: SIZE 1,5 ;
241: DEFAULT 0 ;
242: DISABLE
243: @ 8,19 GET m.button ;
244: PICTURE "g*HT \<ok;\<Cancel" ;
245: SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: VALID qsf0kpgvz()
248: @ 2,1 SAY "Type:" ;
249: SIZE 1,5,0
250: @ 4,1 GET m.obj ;
251: PICTURE "g*HN Object" ;
252: SIZE 1,8,1 ;
253: DEFAULT 1 ;
254: VALID qsf0kph17()
255:
256: [IF NOT WISIBLE("object")]
257: ACTIVATE WINDOW OBJECT
258: [ENDIF
259:
260: READ CYCLE MODAL
261:
262: RELEASE WINDOW OBJECT
263:
264: #REGION 0
265: [IF m.talkstat = "ON"
266: SET TALK ON
267: [ENDIF
268: [IF m.compsstat = "ON"
269: SET COMPATIBLE ON
270: [ENDIF
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291: FUNCTION _qsf0kprf1    && m.object VALID
292: #REGION 1
293: [IF m.object = 1
294: SELECT dict
295: SET ORDER TO 1
296: GOTO BOTTOM
297: m.id = id + 1
298: ]
299: [ELSE
300: [IF m.object = 2
301: SELECT disease

```

```

_QSF0KPRF1    m.object VALID
Function Origin:
From Platform:  Windows
Variable:       OBJECT,
Called By:     m.object
Object Type:   Radio Button
Snippet Number: 1

```

```

301: SET ORDER TO 1
302: GOTO BOTTOM
303: m.id = id + 1
304: [ENDIF
305: ]
306: SHOW GETS
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323: FUNCTION _qsf0kpfv8    && m.name VALID
324: #REGION 1
325: =getobj(m.name)
326:
327:
328:
329:
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342: FUNCTION _qsf0kpfyy    && m.button VALID
343: #REGION 1
344: [IF m.button = 1
345: * SEEK m.id
346: * IF ifound()
347: APPEND BLANK
348: REPLACE id WITH m.id
349: REPLACE name WITH m.name
350: * IF m.get
351: * = datainput()
352: * ENDIF
353: ]
354: [DO CASE
355: CASE m.status = "q"
356: SELECT quals
357: CASE m.status = "g"
358: SELECT goals
359: ]
360: APPEND BLANK
361: REPLACE id WITH m.id
362: REPLACE OBJECT WITH IIF(m.object=1,"S","D")
363: REPLACE area WITH area.area
364: SELECT (m.sel)
365: [ENDIF
366:

```

```

_QSF0KPFV8    m.name VALID
Function Origin:
From Platform:  Windows
From Screen:   OBJECT,
Variable:      m.name
Called By:     VALID Clause
Object Type:   Field
Snippet Number: 2

```

```

_QSF0KPFYY    m.button VALID
Function Origin:
From Platform:  Windows
From Screen:   OBJECT,
Variable:      m.button
Called By:     VALID Clause
Object Type:   Push Button
Snippet Number: 3

```


367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
384: *
385: *
386: *
387: *
388: *
389: *
390: *
391: *
392: *
393: *
394: *
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411: *
412: *
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *
423: *
424: *
425: *
426: *
427: *
428: *
429: *
430: *
431: *
432: *

Function Origin: m.obj VALID
Record Number: 8
From Platform: Windows
From Screen: OBJECT,
Variable: m.obj
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4

FUNCTION 1_qsf0kpg47 && m.obj VALID
#REGION 1_qsf0kpg47
DO CASE
CASE m.object = 1
SELECT dict
CASE m.object = 2
SELECT disease
ENDCASE
=creatarrray()
DO selitem
SHOW GETS

Function Origin: m.object VALID
Record Number: 13
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.object
Called By: VALID Clause
Object Type: Radio Button
Snippet Number: 5

FUNCTION 1_qsf0kpgoj && m.object VALID
#REGION 1_qsf0kpgoj
IF m.object = 1
SELECT dict
SET ORDER TO 1
GOTO BOTTOM
m.id = id + 1
ELSE
IF m.object = 2
SELECT disease
SET ORDER TO 1
GOTO BOTTOM
m.id = id + 1
ENDIF
ENDIF
SHOW GETS

Function Origin: m.name VALID
Record Number: 18
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.obj
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 8

433: *
434: *
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *
453: *
454: *
455: *
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457: *
458: *
459: *
460: *
461: *
462: *
463: *
464: *
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *

Function Origin: MS-DOS
From Screen: OBJECT,
Variable: m.name
Called By: VALID Clause
Object Type: Field
Snippet Number: 6
Record Number: 14

FUNCTION 1_qsf0kpgsr && m.name VALID
#REGION 1_qsf0kpgsr
=getobj(m.name)

Function Origin: m.button VALID
Record Number: 16
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.button
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 7

FUNCTION 1_qsf0kpgvz && m.button VALID
#REGION 1_qsf0kpgvz
IF m.button = 1
SEEK m.id
IF !found()
APPEND BLANK
REPLACE id WITH m.id
REPLACE name WITH m.name
IF !m.get
= datainput()
ENDIF
ENDIF
DO CASE
CASE m.status = "q"
SELECT quals
CASE m.status = "g"
SELECT goals
ENDCASE
APPEND BLANK
REPLACE id WITH m.id
REPLACE OBJECT WITH IIF(m.object=1,"S","D")
REPLACE area WITH area.area
SELECT (m.sel)
ENDIF

Function Origin: m.obj VALID
Record Number: 18
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.obj
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 8

```

499: *
500: * FUNCTION _qsf0kph17 && m.obj VALID
501: #REGION 1
502: DO CASE
503: CASE m.object = 1
504: SELECT dict
505: CASE m.object = 2
506: SELECT disease
507: ENDCASE
508: =creatarray()
509: DO selitem
510: SHOW GETS
511:
512:
513:
514:
515:
516:
517:
518:
519:
520:
521:
522: #REGION 1
523: FUNCTION creatarray
524: IF RECCOUNT() > 0
525: DIMENSION marray[reccount()]
526: ELSE
527: DIMENSION marray[1]
528: ENDF
529: marray = ""
530: i = 0
531: IF m.status = "Q"
532: m.dbf = 'EQUALS'
533: ELSE
534: m.dbf = 'GOALS'
535: ENDF
536: GOTO TOP
537: SCAN
538: IF EMPTY(SEEK(id,m.dbf))
539: i = i + 1
540: marray[i] = RIGHT(STR(id),5) + " " + TRIM(name)
541: ENDF
542: ENDCAN
543: IF i > 0
544: DECLARE marray[i] && resize marray
545: ELSE
546: DECLARE marray[1]
547: marray = ""
548: ENDF
549: RETURN
550:
551: FUNCTION datainput
552: m.get = .T.
553: DO CASE
554: CASE "DISEASE.DBF" $ DBF()
555: DO disease.spr
556: CASE "DICT.DBF" $ DBF()
557: DO dict.spr WITH m.id
558: ENDCASE
559: m.id = id
560: m.name = name
561: RETURN
562:
563:
564: *

```

OBJECT/MS-DOS Supporting Procedures and Functions

```

565: *
566: * Get the matching list of object
567: *
568:
569: FUNCTION getobj
570: PARAMETER m.name
571: PRIVATE m.file, mcom, msel, m.temp
572: mcom = SET("EXACT")
573: SET EXACT OFF
574: m.file = DBF()
575: msel = SELECT()
576: m.temp = m.name + "%"
577:
578: SELECT id, name;
579: FROM (m.file);
580: INTO CURSOR t0000000;
581: WHERE UPPER(name) LIKE (UPPER(m.temp))
582: SELECT t0000000
583: =creatarray()
584: USE
585: SELECT (msel)
586: DO selitem
587: *delete file t0000000.dbf
588: SET EXACT &mcom
589: RETURN
590:
591:
592: FUNCTION selitem
593: m.item = ""
594: IF !EMPTY(marray[1])
595: DO obl.st.spr WITH marray, m.item
596: IF m.item $ ""
597: m.name = ""
598: CUROBJ = OBJNUM(m.name)
599: SHOW GETS
600: RETURN
601: ENDF
602:
603: IF EMPTY(m.item)
604: m.get = .T.
605: DO CASE
606: CASE "DISEASE.DBF" $ DBF()
607: DO disease.spr
608: CASE "DICT.DBF" $ DBF()
609: DO dict.spr WITH m.id
610: ENDCASE
611: m.id = id
612: m.name = name
613: ELSE
614: m.id = VAL(m.item)
615: m.name = TRIM(SUBSTR(m.item,7,LEN(m.item)))
616: ENDF
617: * EOF: OBJECT.ac1

```



```

245: Snippet Number: 1
246:
247:
248:
249: FUNCTION _qsf0kpkjam  && mbuttons VALID
250:
251: DO CASE
252:   CASE mbuttons = 1  && ok
253:     mok = .T.
254:   CASE mbuttons = 2  && cancel
255:     mok = .F.
256: ENDCASE
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273: FUNCTION _qsf0kpfj7  && enum.mutex VALID
274:
275: DO CASE
276:   CASE dict.datatype $ "EL"
277:     RETURN mutex = " "
278:   CASE dict.datatype $ "M"
279:     RETURN mutex $ " -+"
280: ENDCASE
281: RETURN .F.
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:
299:
300: #REGION 1
301: DO WHILE id = dict.id
302:   m.ord = ord
303:   SKIP
304: ENDDO
305: m.ord = m.ord + 1
306: APPEND BLANK
307: m.id = dict.id
308: m.mutex = " "
309: GATHER MEMVAR
310: _CURROBJ = OBJNUM(enum.mutex)

```

```

311: SHOW GETS
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329: FUNCTION _qsf0kpkjyy  && mbuttons VALID
330:
331: DO CASE
332:   CASE mbuttons = 1  && ok
333:     mok = .T.
334:   CASE mbuttons = 2  && cancel
335:     mok = .F.
336: ENDCASE
337:
338:
339:
340:
341:
342:
343:
344:
345:
346:
347:
348:
349:
350:
351:
352:
353: FUNCTION _qsf0kpk3s  && enum.mutex VALID
354:
355: DO CASE
356:   CASE dict.datatype $ "EL"
357:     RETURN mutex = " "
358:   CASE dict.datatype $ "M"
359:     RETURN mutex $ " -+"
360: ENDCASE
361: RETURN .F.
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
374:
375:
376:

```

_QSFOKPKJYY
 Function Origin: mbuttons VALID
 From Platform: MS-DOS
 From Screen: ENUM, Record Number: 12
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 4

_QSFOKPK3S
 Function Origin: enum.mutex VALID
 From Platform: MS-DOS
 From Screen: ENUM, Record Number: 16
 Variable: enum.mutex
 Called By: VALID Clause
 Object Type: Field
 Snippet Number: 5

_QSFOKPKBE
 Function Origin: mbutton VALID
 From Platform: MS-DOS
 From Screen: ENUM, Record Number: 19
 Variable: mbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 6

```

377: *
378: FUNCTION _qsf0kpk8e    && mbutton VALID
379: #REGION 1
380: m.ord = 0
381: DO WHILE id = dict.id
382:   m.ord = ord
383:   SKIP
384: ENDDO
385: m.ord = m.ord + 1
386: APPEND BLANK
387: m.id = dict.id
388: m.mutex = ""
389: GATHER MEMVAR
390: CUROBJ = OBJNUM(enum.mutex)
391: SHOW GETS
392: *: EOF: ENUM.ac1

```



```

=> 117:
=> 118: RESTORE/Windows Screen Layout
=> 119:
=> 120:
*
*
*
*
*
#REGION 1
IF WWISIBLE("w_restore")
  ACTIVATE WINDOW w_restore SAME
ELSE
  ACTIVATE WINDOW w_restore NOSHOW
ENDIF
@ 3.692,59.500 GET mdrive ;
  PICTURE "a " ;
  FROM drivearray ;
  SIZE 1.500,12.500 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  WHEN qsfokpmz() ;
  VALID qsfokpmz() ;
@ 7.154,42.667 SAY "directory:" ;
  FONT "Terminal", 8
@ 0.615,3.167 SAY MESSAGE ;
  SIZE 1.000,39.875 ;
  FONT "Terminal", 8
@ 7.000,59.500 GET mpath ;
  PICTURE "a " ;
  FROM patharray ;
  SIZE 1.500,12.500 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsfokpmxi() ;
@ 10.231,43.333 GET maction ;
  PICTURE "a"HT "\Restore;\<Cancel" ;
  SIZE 2.250,11.375,1.625 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsfokpmj() ;
@ 3.154,2.833 GET mfile ;
  PICTURE "a&n" ;
  FROM filearray ;
  SIZE 11.667,28.875 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsfokpzt() ;
@ 15.846,29.000 GET mfname ;
  SIZE 1.000,32.500 ;
  DEFAULT " " ;
  FONT "Terminal", 8 ;
  VALID qsfokph7e() ;
@ 15.846,3.167 SAY "restore file name: " ;
  FONT "Terminal", 8
@ 3.923,42.667 SAY "from drive: " ;
  FONT "Terminal", 8
IF NOT WWISIBLE("w_restore")
  ACTIVATE WINDOW w_restore
ENDIF
  READ CYCLE MODAL

```

```

178:
179:
180:
181:
182:
183:
184:
185:
186:
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189:
190:
191:
192:
=> 193:
=> 194:
=> 195:
=> 196:
=> 197:
=> 198:
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=> 200:
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=> 202:
=> 203:
=> 204:
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=> 206:
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=> 215:
=> 216:
=> 217:
=> 218:
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=> 220:
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=> 222:
=> 223:
=> 224:
=> 225:
=> 226:
=> 227:
=> 228:
=> 229:
=> 230:
=> 231:
=> 232:
=> 233:

RELEASE WINDOW w_restore
#REGION 0
SET readborder &rborder
IF m_talkstat = "ON"
  SET TALK ON
ENDIF
IF m_compstat = "ON"
  SET COMPATIBLE ON
ENDIF
*
*
*
*
*
*
#REGION 1
SET DEFAULT TO (m.olddrive + m.olddpath)
RETURN
*****
*****
CASE _DOS
*
*
*
*
*
*
#REGION 1
PRIVATE mfname, mpath, olddrive, predrive, oldpath, maction, mdrive, mfiles
DO CASE
CASE PARAMETERS() = 0
  m_message = ""
  m_wildcard = ".*.zip"
  mfname = ""
CASE PARAMETERS() = 1 OR EMPTY(m_wildcard)
  m_wildcard = ".*.zip"
  mfname = ""
CASE PARAMETERS() = 2 OR EMPTY(m_filename)
  mfname = ""
OTHERWISE
  mfname = filename
ENDCASE

```



```

289: DECLARE patharray[1,1]
290: mpath = 1
291: DO newpathpop
292:
293: DECLARE filearray[1,1]
294: mfiles = 1
295: DO newfilepop
296:
297: *
298: *
299: *
300: * RESTORE/MS-DOS Screen Layout
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *

```

```

233: #REGION 0
234: REGIONAL m.currarea, m.talkstat, m.compstat
235:
236:
237: IF SET("TALK") = "ON"
238: SET TALK OFF
239: m.talkstat = "ON"
240: ELSE
241: m.talkstat = "Off"
242: ENDIF
243: m.compstat = SET("COMPATIBLE")
244: SET COMPATIBLE FOXPLUS
245:
246: *
247: *
248: * MS-DOS Window definitions
249: *
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *
265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *

```

```

411: *
412: *
413: *
414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *
423: *
424: *
425: *
426: *
427: *
428: *
429: *
=> dy", "cancel")
430: *
431: *
432: *
433: *
434: *
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *
453: *
454: *
455: *
456: *
457: *
458: *
459: *
460: *
461: *
462: *
463: *
464: *
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *

```

```

350:
351: IF NOT WVISIBLE("w_restore")
352: ACTIVATE WINDOW w_restore
353: ENDIF
354:
355: READ CYCLE MODAL
356:
357: RELEASE WINDOW w_restore
358:
359: #REGION 0
360: IF m.talkstat = "ON"
361: SET TALK ON
362: ENDIF
363: IF m.compstat = "ON"
364: SET COMPATIBLE ON
365: ENDIF
366:
367:
368:
=>
369:
=>
370: RESTORE/MS-DOS Cleanup Code
371:
=>
372:
=>
373:
374:
375:
376: #REGION 1
377: SET DEFAULT TO (m.olddrive + m.oldpath)
378: RETURN
379: *****
380: *****
381: *****
382: *****
383: *****
384: *****
385: *****
386: *****
387: *****
388: *****
389: *****
390: *****
391: *****
392: *****
393: *****
394: *****
395: *****
396: *****
397: *****
398: *****
399: *****
400: *****
401: *****
402: *****
403: *****
404: *****
405: *****
406: *****
407: *****
408: *****
409: *****
410: *****

```

From Platform: Windows
 From Screen: RESTORE,
 Variable: mdrive
 Called By: VALID Clause
 Object Type: Popup
 Snippet Number: 2

*Switch to the selected drive
 FUNCTION _qsf0kpmx0 && mdrive VALID
 #REGION 1
 PRIVATE newdrive, mready
 *Convert the popup bar number into the matching drive name
 m.newdrive = drivearray[mdrive]

IF UPPER(m.newdrive) \$ "A:B:"
 mready = yesno("Please insert disk into drive " + m.newdrive, "rea
 => dy", "cancel")
 ELSE
 mready = .T.
 ENDIF
 IF mready
 *Go there and reset all the other popups to match
 SET DEFAULT TO (m.newdrive)
 DO newfilepath
 DO newfilepop
 ELSE
 mdrive = m.prevedrive
 m.newdrive = drivearray[mdrive]
 ENDIF
 SHOW GETS

_QSF0KPMX1
 Function Origin: mpath VALID
 From Platform: Windows
 From Screen: RESTORE,
 Variable: mpath
 Called By: VALID Clause
 Object Type: Popup
 Snippet Number: 3

FUNCTION _qsf0kpmxi && mpath VALID
 #REGION 1
 m.newdefault = pathstring()
 SET DEFAULT TO (m.newdefault)
 DO newfilepath
 DO newfilepop
 SHOW GETS

_QSF0KPM0J
 Function Origin: maction VALID
 From Platform: Windows
 From Screen: RESTORE,
 Variable: maction

_QSF0KPMZ
 Function Origin: mdrive WHEN
 From Platform: Windows
 From Screen: RESTORE,
 Variable: mdrive
 Called By: WHEN Clause
 Object Type: Popup
 Snippet Number: 1

FUNCTION _qsf0kpmz && mdrive WHEN
 #REGION 1
 m.prevedrive = mdrive

_QSF0KPM50
 Function Origin: mdrive VALID

```

476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
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510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *
541: *

```

```

Called By:
Object Type:
Snippet Number:

```

```

VALID Clause
Push Button
4

```

```

&& maction VALID

```

```

FUNCTION _qsfoKpn0j
#REGION 1_
DO CASE
  IF FILE(mfname)
  DO pkunzip
  OTHERWISE
  ENDCASE

```

```

mfile VALID

```

```

Function Origin:

```

```

From Platform: Windows
From Screen: RESTORE,
Variable: mfile Record Number: 7
Called By: VALID Clause
Object Type: List
Snippet Number: 5

```

```

FUNCTION _qsfoKpn3t && mfile VALID

```

```

#REGION 1_
mnewfile = filearray[mfile,1]
IF " " $ mnewfile
  mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
  SET DEFA TO (mnewpath)
  DO newpathpop
  DO newfilepop
  SHOW GETS
ELSE
  mfname = mnewfile
  SHOW GETS
ENDIF

```

```

mfname VALID

```

```

Function Origin:

```

```

From Platform: Windows
From Screen: RESTORE, Record Number: 8
Variable: mfname
Called By: VALID Clause
Object Type: Field
Snippet Number: 6

```

```

FUNCTION _qsfoKpn7e && mfname VALID

```

```

#REGION 1_
IF EMPTY(mfname)
  IF IFILE(mfname)
  mfname = ""
ENDIF

```

```

542: _ENDIF
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *
555: *
556: *
557: *
558: *
559: *
560: *
561: *
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
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571: *
572: *
573: *
574: *
575: *
576: *
577: *
578: *
579: *
580: *
581: *
582: *
583: *
584: *
585: *
586: *
587: *
588: *
589: *
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591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *

```

```

mdrive WHEN

```

```

Function Origin:

```

```

From Platform: MS-DOS
From Screen: RESTORE, Record Number: 14
Variable: mdrive
Called By: WHEN Clause
Object Type: Popup
Snippet Number: 7

```

```

FUNCTION _qsfoKpn5 && mdrive WHEN

```

```

#REGION 1_
m.prevdribe = mdrive

```

```

mdrive VALID

```

```

Function Origin:

```

```

From Platform: MS-DOS
From Screen: RESTORE, Record Number: 14
Variable: mdrive
Called By: VALID Clause
Object Type: Popup
Snippet Number: 8

```

```

*Switch to the selected drive
FUNCTION _qsfoKpo0a && mdrive VALID

```

```

#REGION 1_
PRIVATE newdrive,mready
*Convert the popup bar number into the matching drive name
m.newdrive = drivearray[mdrive]

```

```

IF UPPER(m.newdrive) $ "A:B:"
  mready = yesno("Please insert disk into drive " + m.newdrive, "rea
->dy", "cancel")
ELSE
  mready = .T.
ENDIF

```

```

IF mready
  *Go there and reset all the other popups to match
  SET DEFAULT TO (m.newdrive)
  DO newpathpop
  DO newfilepop
ELSE
  mdrive = m.prevdribe
  m.newdrive = drivearray[mdrive]
ENDIF
SHOW GETS

```

```

mpath VALID

```

```

Function Origin:

```



```

739: * Create the array of legal drive names
740: DECLARE drivearray[ 1 ]
741: drivearray[ 1 ] = ""
742:
743: * Loop from A to Z
744: m.drivename = "A"
745: FOR i = 1 TO 26
746:
747:   * Try to switch to the drive
748:   SET DEFAULT TO (m.drivename)
749:
750:   * If it worked
751:   -IF NOT m.error
752:
753:     * Add the name to the last element in the array
754:     drivearray[ ALEN( DriveArray ) ] = m.drivename + ":"
755:
756:     * Add another element at the end of the array
757:     DECLARE drivearray[ ALEN( DriveArray ) + 1 ]
758:   -ENDIF
759:
760:   * Change to the next letter in the alphabet
761:   m.drivename = CHR( ASC( m.drivename ) + 1 )
762:
763:   * Reset the error trap
764:   m.error = .F.
765: -NEXT
766:
767:
768: * If the first element is empty, no drives were found
769: -IF EMPTY( drivearray[ 1 ] )
770: SHOW GET m.drive disabled
771: -ELSE
772: * Drives were found so cut off the last empty element
773: * added to the array in the loop
774: DECLARE drivearray[ ALEN( DriveArray ) - 1 ]
775: -ENDIF
776:
777:
778: * Reset the error trap and return to home
779: ON ERROR &olderror
780: SET DEFAULT TO (m.olddefault)
781:
782: * Initialize the popup variable to the element in the
783: * drive array which contains the current drive
784: mdrive = ASCAN( drivearray, m.olddefault )
785: -RETURN
786:
787: *****
788: -CASE WINDOWS
789: *****
790: * Create a popup with each of the legal drive names
791: * The popup will be based on an array of the drive names
792: PRIVATE olddefault, olderror, drivename, ERROR
793:
794: * We will change drives, so remember where we started
795: m.olddefault = SET( "DEFAULT" )
796:
797: * To test for legal drives this program SET DEFAULT TO each drive
798: * If no error occurs the drive name will be added to an array
799:
800: * Create the error trap
801: m.olderror = ON( "ERROR" )
802: m.error = .F.
803: ON ERROR m.error = .T.
804:
805: * Create the array of legal drive names

```

```

805:
806: DECLARE drivearray[ 3 ]
807: drivearray[ 1 ] = "A"
808: drivearray[ 2 ] = "B"
809: drivearray[ 3 ] = ""
810:
811: * Loop from A to Z
812: m.drivename = "A"
813: FOR i = 3 TO 26
814:
815:   * Try to switch to the drive
816:   SET DEFAULT TO (m.drivename)
817:
818:   * If it worked
819:   -IF NOT m.error
820:
821:     * Add the name to the last element in the array
822:     drivearray[ ALEN( DriveArray ) ] = m.drivename + ":"
823:
824:     * Add another element at the end of the array
825:     DECLARE drivearray[ ALEN( DriveArray ) + 1 ]
826:   -ENDIF
827:
828:   * Change to the next letter in the alphabet
829:   m.drivename = CHR( ASC( m.drivename ) + 1 )
830:
831:   * Reset the error trap
832:   m.error = .F.
833: -NEXT
834:
835:
836: * If the first element is empty, no drives were found
837: -IF EMPTY( drivearray[ 1 ] )
838: SHOW GET m.drive disabled
839: -ELSE
840: * Drives were found so cut off the last empty element
841: * added to the array in the loop
842: DECLARE drivearray[ ALEN( DriveArray ) - 1 ]
843: -ENDIF
844:
845:
846: * Reset the error trap and return to home
847: ON ERROR &olderror
848: SET DEFAULT TO (m.olddefault)
849:
850: * Initialize the popup variable to the element in the
851: * drive array which contains the current drive
852: mdrive = ASCAN( drivearray, m.olddefault )
853: -RETURN
854:
855: *****
856: -CASE DOS
857: *****
858: * Create a popup with one bar for each subdirectory
859: * in the current path
860: PRIVATE dirstring, dircount
861:
862:
863:
864:
865:
866:
867:
868:
869:
870:

```

RESTORE Procedure NEWPATHPOP

```

871: * Base the popup on an array with one element for
872: * each subdirectory in the current path
873:
874: * Start the array with the current drive
875: DECLARE patharray[ 1 ]
876: patharray[ 1 ] = SET( "DEFAULT" )
877:
878: * Get the current path string
879: m.dirstring = CURDIR(
880:
881: * If we are not in the root directory
882: IF LEN( m.dirstring ) > 1
883:
884: * Start parsing the path string for each directory name
885: m.dircount = 1
886:
887: * Continue as long as there is a pair of slashes
888: * Surrounding the next part of the string
889: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
890: AT( "\", m.dirstring, m.dircount + 1 ) <> 0
891:
892: * Add another element at the end of the array
893: DECLARE patharray[ m.DirCount + 1 ]
894:
895: * Cut out the next set of characters between the slashes
896: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
897:
898: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
899: - m.firstchar
900:
901: * And add them to the next array element
902: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
903: m.firstchar, m.pathlength )
904:
905: * Look for the next directory name in the path string
906: m.dircount = m.dircount + 1
907:
908: ENDDO
909:
910: * Point the popup variable at the last element in the array
911: mpath = ALEN( patharray )
912: RETURN
913:
914: *****
915: *****
916: *****
917: *****
918: *****
919: * Create a popup with one bar for each subdirectory
920: * in the current path
921: PRIVATE dirstring, dircount
922:
923: * Base the popup on an array with one element for
924: * each subdirectory in the current path
925:
926: * Start the array with the current drive
927: DECLARE patharray[ 1 ]
928: patharray[ 1 ] = SET( "DEFAULT" )
929:
930: * Get the current path string
931: m.dirstring = CURDIR(
932:
933: * If we are not in the root directory
934: IF LEN( m.dirstring ) > 1
935:
936: * Start parsing the path string for each directory name

```

```

937:
938: m.dircount = 1
939:
940: * Continue as long as there is a pair of slashes
941: * Surrounding the next part of the string
942: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
943: AT( "\", m.dirstring, m.dircount + 1 ) <> 0
944:
945: * Add another element at the end of the array
946: DECLARE patharray[ m.DirCount + 1 ]
947:
948: * Cut out the next set of characters between the slashes
949: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
950:
951: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
952: - m.firstchar
953:
954: * And add them to the next array element
955: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
956: m.firstchar, m.pathlength )
957:
958: * Look for the next directory name in the path string
959: m.dircount = m.dircount + 1
960:
961: ENDDO
962:
963: * Point the popup variable at the last element in the array
964: mpath = ALEN( patharray )
965: RETURN
966:
967: *****
968: *****
969: *****
970: *****
971: *****
972: *****
973: *****
974: *****
975: *****
976: *****
977: *****
978: *****
979: *****
980: *****
981: *****
982: *****
983: *****
984: *****
985: *****
986: *****
987: *****
988: *****
989: *****
990: *****
991: *****
992: *****
993: *****
994: *****
995: *****
996: *****
997: *****
998: *****
999: *****
1000: *****

```

RESTORE Procedure NEWFILEPOP


```

1197:
1198: desdir = pathstring() + mfname
1199: SET DEFA TO (datadir)
1200: IF !EMPTY(GETENV("CAMDUTIL"))
1201:   pkzipcom = "!" + GETENV("CAMDUTIL") + "\PKUNZIP -O &desdir *.db
=> f *.cdx *.idx *.fpt"
1202: ELSE
1203:   pkzipcom = "!PKUNZIP -O &desdir *.dbf *.cdx *.idx *.fpt"
1204: ENDIF
1205: &pkzipcom
1206: USE
1207: DELETE FILE t0000000.txt
1208: SET DEFA TO (CURDIR)
1209:
1210: RETURN
1211: *****
1212:
1213: PRIVATE CURDIR, datadir, msel
1214: CURDIR = FULLPATH(CURDIR())
1215: IF !EMPTY(GETENV("KBDATA"))
1216:   datadir = FULLPATH(GETENV("KBDATA"))
1217: ELSE
1218:   datadir = CURDIR()
1219: ENDIF
1220: desdir = pathstring() + mfname
1221: SET DEFA TO (datadir)
1222: IF !EMPTY(GETENV("CAMDUTIL"))
1223:   pkzipcom = "!" + GETENV("CAMDUTIL") + "\PKUNZIP -O &desdir *.db
=> f *.cdx *.idx *.fpt"
1224: ELSE
1225:   pkzipcom = "!PKUNZIP -O &desdir *.dbf *.cdx *.idx *.fpt"
1226: ENDIF
1227: &pkzipcom
1228: USE
1229: DELETE FILE t0000000.txt
1230: SET DEFA TO (CURDIR)
1231:
1232: RETURN
1233: *****
1234: * : EOF: RESTORE.ac1
1235:

```

```

1131: m.ppath = patharray[ 1 ]
1132: * If the path popup is pointing to a subdirectory
1133: IF mpath > 1
1134:   * Add all the subdirectories to the path string
1135:   FOR i = 2 TO mpath
1136:     m.ppath = m.ppath + "\" + patharray[ i ]
1137:   NEXT
1138: ENDIF
1139: * End the path with one last slash for good luck
1140: m.ppath = m.ppath + "\"
1141: RETURN m.ppath
1142: *****
1143: *****
1144: *****
1145: *****
1146: *****
1147: *****
1148: *****
1149: *****
1150: *****
1151: *****
1152: *****
1153: *****
1154: *****
1155: *****
1156: *****
1157: *****
1158: *****
1159: *****
1160: *****
1161: *****
1162: *****
1163: *****
1164: *****
1165: *****
1166: *****
1167: *****
1168: *****
1169: *****
1170: *****
1171: *****
1172: *****
1173: *****
1174: *****
1175: *****
1176: *****
1177: *****
1178: *****
1179: *****
1180: *****
1181: *****
1182: *****
1183: *****
1184: *****
1185: *****
1186: *****
1187: *****
1188: *****
1189: *****
1190: *****
1191: *****
1192: *****
1193: *****
1194: *****
1195: *****
1196: *****

```

RESTORE Procedure PKUNZIP

```

PROCEDURE pkunzip
DO CASE
CASE DOS
*****
PRIVATE CURDIR, datadir, msel
CURDIR = FULLPATH(CURDIR())
IF !EMPTY(GETENV("CAMD"))
datadir = FULLPATH(GETENV("CAMD"))
ELSE
datadir = CURDIR()

```


08/09/94	DD.SPR	09:39:55
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description:		
This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *
62: *
63: *
64: *
65: *
66: *

```

```

#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT MEXIST("w_dd");
OR UPPER(WTITLE("w_dd")) = "w_dd.pjx" ;
OR UPPER(WTITLE("w_dd")) = "w_dd.scx" ;
OR UPPER(WTITLE("w_dd")) = "w_dd.mnx" ;
OR UPPER(WTITLE("w_dd")) = "w_dd.prg" ;
OR UPPER(WTITLE("w_dd")) = "w_dd.frx" ;
OR UPPER(WTITLE("w_dd")) = "w_dd.qpr" ;
DEFINE WINDOW w_dd ;
AT 0.000, 0.000 ;
SIZE 30.000, 99.200 ;
TITLE "Question - Data Dictionary" ;
FONT "MS Sans Serif", 8 ;
FLOAT ;
NOCLOSE ;
MINIMIZE ;
SYSTEM ;
MOVE WINDOW w_dd CENTER ;
ENDIF

```

DD/Windows Setup Code - SECTION 2

```

67: *
68: *
69: *
70: *
71: *
72: *
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
88: *
89: *
90: *
91: *
92: *
93: *
94: *
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96: *
97: *
98: *
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103: *
104: *
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107: *
108: *
109: *
110: *
111: *
112: *
113: *
114: *
115: *
116: *
117: *
118: *
119: *
120: *
121: *
122: *
123: *
124: *
125: *
126: *
127: *
128: *
129: *
130: *
131: *
132: *

```

DD/Windows Screen Layout

265: SHOW GETS

```

266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *

```

```

_qsfokpt7d      mq VALID
Function Origin:      Windows      Record Number: 3
From Platform:      DD,
From Screen:      mq
Variable:      VALID Clause
Called By:      List
Object Type:      2
Snippet Number:

```

```

280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *

```



```

1:  * *****
=> *****
2:  *
3:  * Procedure file: C:\CAMD2\KBEDIT\WORK\ERRMSG.PRG
4:  * System: Knowledge Base Editor
5:  * Author: Hoa L. Ly
6:  * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7:  * Last modified: 07/29/94 at 9:22:58
8:  *
9:  * Set by: ACTION.SPR
10: * : ACTELSE.SPR
11: * : QUIT()
12: * : VALIDOB4()
13: *
14: * Documented 15:01:10 FoxDoc versio
=> n 3.00a
15: * *****
=> *****
16: * Open a message window
17: *
18: * * ERRMSG( <exp>[, <expn>] )
19: *
20: * PARAMETERS errmsg, timelimit
21: PRIVATE ALL
22: * If no errmsg is sent then quit
23: * IF PARAMTERS()=0
24: <-RETURN
25: <-ENDIF
26:
27:
28: * m.TimeLimit is used in a WAIT TIMEOUT command
29: * to control the amount of time ERRMSG display's its message
30: * If no time limit is received set time to 0 wait forever
31:
32: IF PARAMTERS()=1 OR EMPTY(m.timelimit)
33: m.timelimit=0
34: <-ENDIF
35:
36: IF TYPE("m.TimeLimit")!="W"
37: m.timelimit=IIF(TYPE("m.TimeLimit")="C",INT(VAL(m.timelimit)),0)
38: <-ENDIF
39:
40: m.errmsg=IIF(TYPE("m.errmsg")!="C", "", m.errmsg)
41:
42: IF PARAMTERS()=2 AND EMPTY(m.errmsg) AND m.timelimit>0
43: <-RETURN
44: <-ENDIF
45:
46: * set talk off
47: IF SET('TALK') = 'ON' && TALK handled as a special case.
48: SET TALK OFF
49: savetalk = 'ON' && TALK was ON, save the setting
50: ELSE && TALK is OFF
51: savetalk = 'OFF' && TALK was OFF, save the setting
52: <-ENDIF
53:
54: * Get the length of the message to size window
55: m.len=LEN(m.errmsg)
56: m.high = 1
57: m.old = SET("memowidth")
58: SET MEMOWIDTH TO 75
59: * Set minimum length for the Press any key
60: IF m.timelimit = 0
61: m.len=IIF(m.len<30,m.len)
62: <-ENDIF

```

```

63:
64: IF m.len > 75
65: m.high=MEMLINES(m.errmsg)
66: m.len=75
67: <-ENDIF
68:
69: *Find beginning/ending of the window
70: m.begin=40-(INT(m.len/2)+1)
71: m.end=40+(INT(m.len/2)+1)
72:
73: * Remember the current window status
74: m.oldwindow =IIF( WOUTPUT() = errmsg, "" , WOUTPUT() )
75:
76: * Create the window
77: DEFINE WINDOW errmsg ;
78: AT 22, BEGIN;
79: SIZE m.high + 3, m.len + 5 ;
80: FONT "terminal", 8 ;
81: FLOAT ;
82: NOCLOSE ;
83: MINIMIZE ;
84: DOUBLE ;
85: COLOR RGB(, , 0, 0, 255)
86:
87: *define window errmsg from 18,m.begin to 23,m.end color scheme 1
88: ACTIVATE WINDOW errmsg
89:
90: * Print the message centered in the window
91:
92: CLEAR
93: @ 1, ( WCOL() - m.len )/2 SAY m.errmsg ;
94: SIZE (m.high), (m.len);
95: FONT "terminal",8
96:
97: IF m.timelimit = 0
98: * m.presskey = "Press any key to continue"
99: * @ 2, ( wcol() - len( m.presskey ) )/2 say m.presskey
100:
101: IF m.high > 1
102: @ ROW(), 1 SAY ""
103: ELSE
104: @ ROW() + 1, 1 SAY ""
105: <-ENDIF
106: WAIT
107: ELSE
108: * Wait for the number of seconds in m.Timeout
109: * A value of 0 will wait forever
110: WAIT "" TIMEOUT m.timelimit
111: <-ENDIF
112:
113: * Close Window
114: RELEASE WINDOW errmsg
115:
116: * If there was no output window originally
117: IF EMPTY( m.oldwindow )
118:
119: * Send future output back to the screen
120: ACTIVATE SCREEN
121: ELSE
122:
123: * Return output to the original window
124: ACTIVATE WINDOW ( m.oldwindow )
125: <-ENDIF
126:
127: SET TALK &savetalk && Restore original TALK setting
128:

```

129: <—RETURN

130: *: EOF: ERRMSG.act


```

133: SIZE 1.000,33.875 ;
134: DEFAULT " " ;
135: FONT "Terminal", 8
136: @ 1.083,60.500 GET m.datatype ;
137: PICTURE "a N;E;M;L;" ;
138: SIZE 1.500,4.375 ;
139: DEFAULT "N" ;
140: FONT "Terminal", 8 ;
141: VALID qsf0kpy4x() ;
142: DISABLE
143: @ 3.167,21.250 GET dict.askable ;
144: SIZE 1.000,4.625 ;
145: DEFAULT .F. ;
146: FONT "Terminal", 8
147: @ 5.000,3.250 EDIT m.question ;
148: SIZE 3.000,61.750,0.000 ;
149: DEFAULT " " ;
150: FONT "Terminal", 8 ;
151: SCROLL ;
152: WHEN dict.askable
153: @ 10.167,3.125 GET mp ;
154: PICTURE "a&N" ;
155: FROM enum ;
156: SIZE 9.333,62.000 ;
157: DEFAULT 1 ;
158: FONT "Terminal", 8 ;
159: WHEN m.datatype $ "EML" ;
160: VALID qsf0kpy8w() ;
161: @ 20.167,16.750 GET m.width ;
162: SIZE 1.000,5.500 ;
163: DEFAULT 0 ;
164: FONT "Terminal", 8 ;
165: WHEN m.datatype = "N" ;
166: DISABLE
167: @ 20.167,39.250 GET m.dec ;
168: SIZE 1.000,11.500 ;
169: DEFAULT 0 ;
170: FONT "Terminal", 8 ;
171: WHEN m.datatype = "N" ;
172: DISABLE
173: @ 22.167,16.750 GET m.hi ;
174: SIZE 1.000,10.000 ;
175: DEFAULT 0 ;
176: FONT "Terminal", 8 ;
177: WHEN m.datatype = "N" ;
178: DISABLE
179: @ 22.167,33.250 GET m.lo ;
180: SIZE 1.000,13.000 ;
181: DEFAULT 0 ;
182: FONT "Terminal", 8 ;
183: WHEN m.datatype = "N" ;
184: DISABLE
185: @ 22.167,54.250 GET m.units ;
186: SIZE 1.000,10.000 ;
187: DEFAULT " " ;
188: FONT "Terminal", 8 ;
189: WHEN m.datatype = "N" ;
190: DISABLE
191: @ 24.000,25.500 GET m.buttons ;
192: PICTURE "a*HT OK;Cancel" ;
193: SIZE 1.917,8.375,0.750 ;
194: DEFAULT 1 ;
195: FONT "Terminal", 8 ;
196: VALID qsf0kpyf6() ;
197: @ 3.167,3.000 SAY "Question Askable:" ;
198: FONT "Terminal", 8 ;

```

```

199: STYLE "I"
200:
201: [ IF NOT HVISIBLE("dict")
202: ACTIVATE WINDOW dict
203: ENDIF
204:
205: READ CYCLE MODAL ;
206: WHEN _qsf0kpyj0()
207: RELEASE WINDOW dict
208:
209: #REGION 0
210:
211: SET readborder &rborder
212:
213: [ IF m.talkstat = "ON"
214: SET TALK ON
215: ENDIF
216: [ IF m.compstat = "ON"
217: SET COMPATIBLE ON
218: ENDIF
219:
220:
221: *
222: *
223: *
224: *
225: *
226: *
227:
228: #REGION 1
229: SELECT dict
230: GOTO m.qreco
231:
232: ←RETURN
233:
234:
235: *
236: *
237: *
238: *
239: *
240:
241: #REGION 1
242: PROCEDURE edenum
243: SELECT enum
244: [ IF enumr[mp] > 0
245: GOTO enumr[mp]
246: ENDIF
247: *m.id = dict.id
248: DO enum.spr
249: DO setenum
250: SHOW GETS
251: SELECT dict
252: ←RETURN
253:
254: PROCEDURE setenum
255: enum = " "
256: enumr = 0
257: [ IF m.datatype $ "EML"
258: PRIVATE msel, i
259: msel = SELECT()
260: SELECT enum
261: SEEK m.id
262:
263:
264:

```

DICT/Windows Cleanup Code

DICT/Windows Supporting Procedures and Functions

```

265: i = 0
266: DO WHILE id = m.id
267:   i = i + 1
268:   enumr[i] = RECNOX()
269:   enumt[i] = mutex + " " + TRIM( enumerate )
270:   SKIP
271: ENDDO
272: mpn = i
273: mp = MIN(mpn, mp)
274: mp = MAX(1, mp)
275: IF enumr[mp] > 0
276:   GOTO enumr[mp]
277: ENDIF
278: SELECT (msel)
279: ENDIF
280: RETURN
281: PROCEDURE setval
282: IF m.datatype $ "N"
283:   PRIVATE msel, i
284:   msel = SELECT()
285:   SELECT VAL
286:   SCATTER MEMVAR
287:   SHOW GETS
288:   SELECT (msel)
289: ENDIF
290: RETURN
291:
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
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303:
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329:
330:

```

```

_QSF0KPY4X
Function Origin:
From Platform: m.datatype VALID
From Screen: Windows Record Number: 15
Variable: DICT, m.datatype
Called By: VALID Clause
Object Type: PopUp
Snippet Number: 1

```

```

309: FUNCTION _qsfkpy4x  && m.datatype VALID
310: #REGION 1
311: SHOW GET m.datatype DISABLE
312:
313:
314:
315:
316:
317:
318:
319:
320:
321:
322:
323:
324:
325:
326:
327:
328:
329:
330:

```

```

_QSF0KPY8W
Function Origin:
From Platform: mp VALID
From Screen: Windows Record Number: 18
Variable: DICT, mp
Called By: VALID Clause
Object Type: List
Snippet Number: 2

```

```

327: FUNCTION _qsfkpy8w  && mp VALID
328: #REGION 1
329: DO edenur
330:

```

```

331:
332:
333:
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392:
393:

```

```

_QSF0KPYF6
Function Origin:
From Platform: mbuttons VALID
From Screen: Windows Record Number: 24
Variable: DICT, mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3

```

```

347: FUNCTION _qsfkpyf6  && mbuttons VALID
348: #REGION 1
349: DO CASE
350: CASE mbuttons = 1  && ok
351:   SELECT dict
352:   GATHER MEMVAR
353:   IF m.datatype $ "N"
354:     SELECT VAL
355:     GATHER MEMVAR
356:   ENDIF
357: CASE mbuttons = 2  && cancel
358:   mok = .F.
359: ENDCASE

```

```

_QSF0KPYJ0
Function Origin:
From Platform: Read Level When
From Screen: Windows
Called By: DICT
Object Type: READ Statement
Snippet Number: 4

```

```

375: FUNCTION _qsfkpyj0  && Read Level When
376: #REGION 1
377: * When Code from screen: DICT
378:
379:
380:
381:
382:
383:
384:
385:
386:
387:
388:
389:
390:
391:
392:
393:

```

```

_QSF0KPYJ0
Function Origin:
From Platform: Read Level When
From Screen: Windows
Called By: DICT
Object Type: READ Statement
Snippet Number: 4

```

```

392: * EOF: DICT.ac1
393:

```



```

133: FONT "Terminal", 8 ;
134: VALID qsf0k0sa() ;
135: MESSAGE "premises" ;
136: @ 7.167,1.625 GET mp ;
137: PICTURE "%&N" ;
138: FROM prem ;
139: SIZE 4.667,50.875 ;
140: DEFAULT 1 ;
141: FONT "Terminal", 8 ;
142: @ 13.000,1.500 GET minvact ;
143: PICTURE "%*HN \<THEN:" ;
144: SIZE 1.583,7.125,0.750 ;
145: DEFAULT 1 ;
146: FONT "Terminal", 8 ;
147: VALID qsf0k0wk() ;
148: MESSAGE "actions" ;
149: @ 15.167,1.625 GET ma ;
150: PICTURE "%&N" ;
151: FROM act ;
152: SIZE 4.667,50.875 ;
153: DEFAULT 1 ;
154: FONT "Terminal", 8 ;
155: @ 21.000,1.500 GET minvelse ;
156: PICTURE "%*HN \ELSE:" ;
157: SIZE 1.583,7.250,0.750 ;
158: DEFAULT 1 ;
159: FONT "Terminal", 8 ;
160: VALID qsf0kq10r() ;
161: MESSAGE "actions (Else)" ;
162: @ 23.167,1.625 GET me ;
163: PICTURE "%&N" ;
164: FROM actelse ;
165: SIZE 4.667,50.875 ;
166: DEFAULT 1 ;
167: FONT "Terminal", 8 ;
168: @ 1.000,54.000 GET mbutton ;
169: PICTURE "%*VN \<next;\<prev;\<Browse;\<Edit;e\<xit" ;
170: SIZE 1.750,8.875,1.083 ;
171: DEFAULT 1 ;
172: FONT "Terminal", 8 ;
173: VALID qsf0kq14z() ;
174: @ 1.167,1.500 SAY "Knowledge Base:" ;
175: FONT "Terminal", 8 ;
176: STYLE "f" ;
177:
178: [ IF NOT HVISIBLE("kbedit")
179: - - ACTIVATE WINDOW kbedit
180: -ENDIF
181:
182: READ CYCLE ;
183: WHEN setaction()
184:
185: RELEASE WINDOW kbedit
186:
187: #REGION 0
188:
189: SET readborder &rborder
190:
191: [ IF m.talkstat = "ON"
192: SET TALK ON
193: -ENDIF
194: [ IF m.comostat = "ON"
195: SET SET COMPATIBLE ON
196: -ENDIF
197:
198:

```

```

199: *
200: *
201: *
202: *
203: *
204: *
205: #REGION 1
206: SELECT rule
207: USE
208: SELECT premise
209: USE
210: SELECT fact
211: USE
212: SELECT action
213: USE
214: SELECT (mset)
215: SELECT (mset)
216: RETURN
217:
218:
219:
220: *
221: *
222: *
223: *
224: *
225: *
226: #REGION 1
227: PROCEDURE setprem
228: PRIVATE msel, i, j, jj, k, n, p, r, s
229: msel = SELECT()
230: SELECT premise
231: SEEK rule.premise
232: i = 0
233: n = 0
234: prem = " "
235:
236: * collect all triples
237: -DO WHILE clause = rule.premise .AND. !EOF()
238: i = i + 1
239: triple[i,1] = premise.op
240: triple[i,2] = premise.fact
241: triple[i,3] = premise.factr
242: triple[i,4] = 0
243: triple[i,5] = RECNO()
244: SKIP
245: -ENDDO
246: ntriples = i
247:
248: * collect leaf nodes
249: SELECT fact
250: -FOR j = 1 TO ntriples
251: IF EMPTY( triple[j,1] )
252: SEEK triple[j,2]
253: IF FOUND()
254: n = n + 1
255: [ IF OBJECT = "s"
256: SELECT dict
257: -ELSE
258: SELECT disease
259: -ENDIF
260: SEEK fact.id
261: m.name = name
262: SELECT fact
263: m.val = TRIM( IIF( TAG = "I", LEFT( TEXT, 80), VAL ) )
264:

```

KBEDIT/Windows Cleanup Code

KBEDIT/Windows Supporting Procedures and Functions

```

265: SELECT dict
266:
267: FOR jj = 1 TO 2
268:   K = AT ( "a", m.val, jj )
269:   IF K = 0
270:     EXIT
271:   ENDIF
272:   P = VAL( SUBSTR( m.val, K + 1 ) )
273:   SEEK P
274:   m.val = STRTRAN( m.val, "a" + LTRIM( STR( P ) ), "(" + TR
=> IM( name ) + ")" )
275:
276:
277:
278: SELECT fact
279:   premm[n] = TRIM( m.name ) + " " + op + " " + m.val
280:   premm[n] = j
281:   premo[n] = ""
282:   triple[j,4] = N
283: ENDIF
284: NEXT
285:
286: SELECT premise
287:   premm = .F.
288:   ptop = 0
289:   IF ntriples > 0
290:     =PUSH(ntriples)    && root of expression tree
291:   ENDIF
292:
293:
294: * parse the expression tree
295: DO WHILE !empty()
296:   i = POP()
297:   IF !EMPTY( triple[i, 1] )
298:     * operator node
299:     * not yet marked; defer
300:     premm[i] = .F.
301:     =PUSH( i )
302:     =PUSH( triple[i, 3] )
303:     =PUSH( triple[i, 2] )
304:   ELSE
305:     * already marked..
306:     j = triple[triple[i, 2], 4] && left term
307:     k = triple[triple[i, 3], 4] && right term
308:     triple[i, 4] = j
309:     IF LEFT( premm[k], 1 ) = triple[i, 1]
310:       * same operator; fold tree
311:       s = hlink( SUBSTR( premm[j], 3 ) ) && add link
312:       premm[j] = " " + s && add elbow
313:       premo[k] = [ IF(EMPTY(premo[k]), ALLTRIM(STR(i)), premo[k] ) +
=> " " + ALLTRIM(STR(i)) )
314:     ELSE
315:       s = hlink( premm[j] )
316:       premm[j] = " " + s
317:       s = hlink( premo[k] )
318:       premo[k] = triple[i, 1] + " " + s && complete left child
319:     ENDIF
320:   ENDIF
321:
322: premo[k] = IIF(EMPTY(premo[k]), ALLTRIM(STR(i)), premo[k] ) +
=> " " + ALLTRIM(STR(i))
323: * indent remaining terms
324: FOR R = 1 TO N
325:   IF R <> j .AND. R <> K
326:     * indent
327:     premm[r] = SPACE(2) + premm[r]
328:   ENDIF
329: NEXT
330:
331:
332:
333:
334:
335:
336:
337:
338:
339:
340:
341:
342:
343:
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389:
390:
391:
392:

```

```

327:
328: * bridge missing links
329: FOR R = 1 TO N
330:   IF R > j .AND. R < K
331:     s = premm[r]
332:     IF EMPTY( LEFT( s, 1 ) )
333:       premm[r] = " " + SUBSTR( s, 2 )
334:     ENDIF
335:   NEXT
336: * cleanup
337: FOR R = j TO K-1
338:   * complete missing links
339:   =vlink( " " + " " )
340:   =vlink( " " + " " )
341:   =vlink( " " + " " )
342:   =vlink( " " + " " )
343: NEXT
344: ENDIF
345: ENDDO
346:
347:
348: mpn = N
349: mp = MIN( mpn, mp )
350: mp = MAX( 1, mp )
351: SELECT (mset)
352: RETURN
353:
354: FUNCTION vlink
355: PARAMETERS FROM, TO
356: PRIVATE f, s
357: i = 1
358: DO WHILE EMPTY( SUBSTR( premm[r], i, 1 ) )
359:   i = i + 1
360: ENDDO
361: s = premm[r+1]
362: * complete missing links
363: IF SUBSTR( premm[r], i, 1 ) = FROM .AND. SUBSTR( s, i, 1 ) = TO
364:   premm[r+1] = LEFT( s, i-1 ) + " " + SUBSTR( s, i+1 )
365: ENDIF
366: RETURN ""
367:
368: FUNCTION hlink
369: PARAMETERS s
370: PRIVATE p
371: p = ""
372: DO WHILE EMPTY( LEFT( s, 2 ) )
373:   p = p + " "
374:   s = SUBSTR( s, 3 )
375: ENDDO
376: RETURN p + s
377:
378: FUNCTION PUSH
379: PARAMETERS N
380: ptop = ptop + 1
381: prems[ptop] = N
382: RETURN N
383:
384: FUNCTION POP
385: PRIVATE N
386: N = prems[ptop]
387: ptop = ptop - 1
388: RETURN N
389:
390: FUNCTION empty
391: RETURN ptop < 1
392:

```

```

393: PROCEDURE setact
394: PRIVATE msel, i, j, K, P
395: msel = SELECT()
396: SELECT action
397: SEEK rule.action
398: i = 0
399: act = ""
400: actr = 0
401: DO WHILE clause = rule.action .AND. !EOF()
402: i = i + 1
403: actr[i] = RECNO()
404: IF OBJECT = "D"
405: SELECT disease
406: ELSE
407: SELECT dict
408: ENDIF
409: SEEK action.id
410: m.name = name
411: SELECT action
412: m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )
413: SELECT dict
414: FOR j = 1 TO 2
415: K = AT ( "a", m.val, j )
416: IF K = 0
417: EXIT
418: ENDIF
419: P = VAL( SUBSTR( m.val, K + 1 ) )
420: SEEK p
421: m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TRIM( na
=> me ) + ")" )
422: NEXT
423: SELECT action
424: act[i] = TRIM( m.name ) + " " + op + " " + m.val
425: SKIP
426: ENDDO
427: man = i
428: ma = MIN(man, ma)
429: ma = MAX(1, ma)
430: IF actr[ma] > 0
431: GOTO actr[ma]
432: ENDIF
433: SELECT (msel)
434: RETURN
435:
436: PROCEDURE setelse
437: PRIVATE msel, i, j, K, P
438: msel = SELECT()
439: SELECT action
440: SEEK rule.else
441: i = 0
442: actelse = ""
443: actelser = 0
444: DO WHILE clause = rule.else .AND. !EOF()
445: i = i + 1
446: actelser[i] = RECNO()
447: IF OBJECT = "D"
448: SELECT disease
449: ELSE
450: SELECT dict
451: ENDIF
452: SEEK action.id
453: m.name = name
454: SELECT action
455: m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )
456: SELECT dict
457: FOR j = 1 TO 2

```

```

458: K = AT ( "a", m.val, j )
459: IF K = 0
460: EXIT
461: ENDIF
462: P = VAL( SUBSTR( m.val, K + 1 ) )
463: SEEK p
464: m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TRIM( na
=> me ) + ")" )
465: NEXT
466: SELECT action
467: actelse[i] = TRIM( m.name ) + " " + op + " " + m.val
468: SKIP
469: ENDDO
470: man = i
471: ma = MIN(man, me)
472: ma = MAX(1, ma)
473: IF actelser[me] > 0
474: GOTO actelser[me]
475: ENDIF
476: ENDIF
477: SELECT (msel)
478: RETURN
479:
480: FUNCTION setaction
481: IF EMPTY(prem[1])
482: SHOW GET minvprem DISABLE
483: SHOW GET mp DISABLE
484: ELSE
485: SHOW GET minvprem ENABLE
486: SHOW GET mp ENABLE
487: ENDIF
488: IF EMPTY(act[1])
489: SHOW GET minvact DISABLE
490: SHOW GET ma DISABLE
491: ELSE
492: SHOW GET minvact ENABLE
493: SHOW GET ma ENABLE
494: ENDIF
495: IF EMPTY(actelse[1])
496: SHOW GET minvelse DISABLE
497: SHOW GET me DISABLE
498: ELSE
499: SHOW GET minvelse ENABLE
500: SHOW GET me ENABLE
501: ENDIF
502: SHOW GET minvact ENABLE
503: SHOW GET me ENABLE
504: ENDIF
505: RETURN
506:
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *
518: *
519: *
520: *
521: *
522: *

```

Function Origin:	minvprem VALID
From Platform:	Windows
From Screen:	KBEDIT
Variable:	minvprem
Called By:	VALID Clause
Object Type:	Push Button
Snippet Number:	1
Record Number:	5

```

523: FUNCTION _qsf0kq0sa    && minvprem VALID
524: #REGION 1
525: PRIVATE msel
526: msel = SELECT()
527: SELECT premise
528: LOCATE FOR clause = rule.premise
529: SET TOPIC TO "PREMISE"
530: DO term.spr
531: DO setprem
532: SELECT (msel)
533: SHOW GETS
534:
535: *
536: *
537: *
538: *
539: *
540: *
541: *
542: *
543: *
544: *
545: *
546: *
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581: *
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585: *
586: *
587: *
588: *

```

```

_QSF0KQ0WK    minvact VALID
Function Origin:
From Platform: Windows
From Screen: KBEDIT,
Variable: minvact
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 2
Record Number: 7

```

```

550: FUNCTION _qsf0kq0wk    && minvact VALID
551: #REGION 1
552: PRIVATE msel
553: msel = SELECT()
554: SELECT action
555: LOCATE FOR clause = rule.action
556: SET TOPIC TO "ACTION"
557: DO action.spr
558: SELECT (msel)
559: SHOW GETS

```

```

_QSF0KQ10R    minvelse VALID
Function Origin:
From Platform: Windows
From Screen: KBEDIT,
Variable: minvelse
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 9

```

```

576: FUNCTION _qsf0kq10r    && minvelse VALID
577: #REGION 1
578: PRIVATE msel
579: msel = SELECT()
580: SELECT action
581: LOCATE FOR clause = rule.else
582: SET TOPIC TO "ACTION"
583: DO actelse.spr
584: DO setelse
585: SHOW GETS
586: SELECT (msel)
587:
588: *

```

```

589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *
607: *
608: *
609: *
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: *
621: *
622: *
623: *
624: *
625: *
626: *
627: *
628: *
629: *
630: *
631: *
632: *
633: *
634: *
635: *
636: *
637: *
638: *
639: *
640: *
641: *
642: *
643: *
644: *
645: *
646: *
647: *

```

```

_QSF0KQ14Z    mbutton VALID
Function Origin:
From Platform: Windows
From Screen: KBEDIT,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
Record Number: 11

```

```

FUNCTION _qsf0kq14z    && mbutton VALID
#REGION 1
SELECT rule
DO CASE
CASE mbutton = 1
IF IEOF()
SKIP
ELSE GOTO BOTTOM
ENDIF
m.goback = area != m.areasid
IF m.goback
GOTO m.recno
ENDIF
CASE mbutton = 2
IF IBOF()
SKIP -1
ELSE GOTO TOP
ENDIF
m.goback = area != m.areasid
IF m.goback
GOTO m.recno
ENDIF
CASE mbutton = 3
SET TOPIC TO "BROWSE"
BROWSE FIELDS rule,salience FOR area = m.areasid NOEDIT
CASE mbutton = 4
SET TOPIC TO "EDIT"
DO rule.spr
CASE mbutton = 5
CLEAR READ
RETURN
ENDCASE
SCATTER MEMVAR
DO setprem
DO setact
DO setelse
DO setaction
SHOW GETS
mtopic = ALIAS()
SET TOPIC TO &mtopic
* EOF: KBEDIT.ac1

```


67: * * * * *
68: * * * * *
69: * * * * *
70: * * * * *
71: * * * * *
72: * * * * *
73: * * * * *
74: * * * * *
75: * * * * *
76: * * * * *
77: * * * * *
78: * * * * *
79: * * * * *
80: * * * * *
81: * * * * *
82: * * * * *
83: * * * * *
84: * * * * *
85: * * * * *
86: * * * * *
87: * * * * *
88: * * * * *
89: * * * * *
90: * * * * *
91: * * * * *
92: * * * * *
93: * * * * *
94: * * * * *
95: * * * * *
96: * * * * *
97: * * * * *
98: * * * * *
99: * * * * *
100: * * * * *
101: * * * * *
102: * * * * *
103: * * * * *
104: * * * * *
105: * * * * *
106: * * * * *
107: * * * * *
108: * * * * *
109: * * * * *
110: * * * * *
111: * * * * *
112: * * * * *
113: * * * * *
114: * * * * *
115: * * * * *
116: * * * * *
117: * * * * *
118: * * * * *
119: * * * * *
120: * * * * *
121: * * * * *
122: * * * * *
123: * * * * *
124: * * * * *
125: * * * * *
126: * * * * *
127: * * * * *
128: * * * * *
129: * * * * *
130: * * * * *
131: * * * * *
132: * * * * *

OBLIST/MS-DOS Screen Layout

```
#REGION 1
IF WISIBLE("w_obj")
  ACTIVATE WINDOW w_obj SAME
ELSE
  ACTIVATE WINDOW w_obj NOSHOW
ENDIF
a 0,1 GET m_obj ;
  PICTURE "@&N" ;
  FROM marray ;
  SIZE 17,58 ;
  DEFAULT 1 ;
  COLOR SCHEME 2
a 18,19 GET m.buttons ;
  PICTURE "@*HT \<New;\<Ok;\<Cancel" ;
  SIZE 1,8,1 ;
  DEFAULT 1 ;
  VALID _qsfoKq4m3()

IF NOT WVISIBLE("w_obj")
  ACTIVATE WINDOW w_obj
ENDIF
```

```
READ CYCLE
RELEASE WINDOW w_obj
#REGION 0
IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF
```

OBLIST/MS-DOS Cleanup Code

```
#REGION 1
FUNCTION validf
  IF Iseek(id,'quals')
    RETURN right(str(id),5) + " " + name
  ENDIF
*RETURN
```

_QSFOKq4M3 m.buttons VALID
Function Origin:
From Platform: MS-DOS
From Screen: OBLIST, Record Number: 3

08/09/94 OBLIST.SPR 09:40:10
Author's Name
Copyright (c) 1994 Company Name
Address
City, Zip
Description:
This program was automatically generated by GENSCRN.

PARAMETERS marray, m.item

OBLIST/MS-DOS Setup Code - SECTION 1

#REGION 1
EXTERNAL ARRAY marray

#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat

```
IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
ELSE
  m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
```

MS-DOS Window definitions

```
IF NOT WEXIST("w_obj") ;
  OR UPPER(WTITLE("w_obj")) = "W_OBJ.PJX" ;
  OR UPPER(WTITLE("w_obj")) = "W_OBJ.SCX" ;
  OR UPPER(WTITLE("w_obj")) = "W_OBJ.MNX" ;
  OR UPPER(WTITLE("w_obj")) = "W_OBJ.PRG" ;
  OR UPPER(WTITLE("w_obj")) = "W_OBJ.FRX" ;
  OR UPPER(WTITLE("w_obj")) = "W_OBJ.QPR" ;
  DEFINE WINDOW w_obj ;
  FROM INT((ROW()-21)/2), INT((COL()-62)/2) ;
  TO INT((ROW()-21)/2)+20, INT((COL()-62)/2)+61 ;
  TITLE "object list" ;
  NOFLOAT ;
  NOCLOSE ;
  SHADOW ;
  NOMINIMIZE ;
  COLOR SCHEME 1
ENDIF
```

Variable:	m.buttons
Called By:	VALID Clause
Object Type:	Push Button
Snippet Number:	1

```

133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: FUNCTION _qsf0kq4m3  && m.buttons VALID
141: #REGION 1
142: DO CASE
143: CASE m.buttons = 1
144:   m.item = ""
145: CASE m.buttons = 2
146:   m.item = marray[m.obj]
147: OTHERWISE
148:   m.item = ""
149: ENDCASE
150: *: EOF: OBLIST.ac1

```

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
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55: *
56: *
57: *
58: *
59: *
60: *
61: *
62: *
63: *
64: *
65: *
66: *

08/09/94          DDEDIT.SPR          09:40:13

Author's Name
Copyright (c) 1994 Company Name
Address
City,           Zip
Description:
This program was automatically generated by GENSCRN.

PARAMETERS m.newwid, m.newnm

DDEDIT/Windows Setup Code - SECTION 1

#REGION 1
PRIVATE mp, mpon, msel, m.adding
DIMENSION enum[20], enumr[20], mrules[1]
msel = SELECT()
SELECT dict
SET ORDER TO 1
enum = " "
enumr = 0
mrules = " "
mp = 1
m.adding = .F.
m.greco = RECNO()
IF PARAMETER() = 0
  m.newwid = id
ENDIF

SEEK m.newwid
IF !FOUND()
  SCATTER MEMVAR BLANK
  m.adding = .T.
  m.id = m.newwid
  m.name = m.newnm
ELSE
  SCATTER MEMVAR
ENDIF
IF !m.adding
  DO setrules
ENDIF
DO setenum

#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat

IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
ELSE
  m.talkstat = "OFF"
ENDIF

```

```

67: m.compstat = SET("COMPATIBLE")
68: SET COMPATIBLE FOXPLUS
69:
70: m.rborder = SET("READBORDER")
71: SET readborder ON
72:
73: *
74: *
75: *
76: *
77: *
78: *
79: *
80: *
81: *
82: *
83: *
84: *
85: *
86: *
87: *
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123: *
124: *
125: *
126: *
127: *
128: *
129: *
130: *
131: *
132: *

Windows Window definitions

DDEDIT/Windows Screen Layout

#REGION 1
IF !VISIBLE(" qsf0kq5ys")
  ACTIVATE WINDOW _qsf0kq5ys SAME
ELSE
  ACTIVATE WINDOW _qsf0kq5ys NOSHOW
ENDIF
@ 1.333,57.750 SAY "Type" ;
FONT "terminal" 8 ;
@ 29.167,12.000 SAY "Hi" ;
FONT "terminal" 8 ;
@ 29.167,31.500 SAY "Lo" ;
FONT "terminal" 8 ;
@ 29.333,49.500 SAY "Units" ;
FONT "terminal" 8 ;
@ 1.333,4.500 SAY "id" ;
FONT "terminal" 8 ;
@ 1.417,13.500 SAY "Name" ;
FONT "terminal" 8 ;
@ 27.167,9.000 SAY "width" ;
FONT "terminal" 8 ;
@ 27.167,37.500 SAY "Decimals" ;
FONT "terminal" 8 ;
@ 29.083,4.500 SAY "range" ;
FONT "terminal" 8 ;
@ 17.167,4.500 SAY "Enum" ;
FONT "terminal" 8 ;
@ 27.167,4.500 SAY "val" ;
FONT "terminal" 8 ;
@ 11.333,4.500 SAY "Question Askable" ;
FONT "terminal" 8 ;
STYLE "tj"

```

```

133: @ 3.167,4.500 SAY "Use in rules:" ;
134: FONT "terminal", 8 ;
135: STYLE "T"
136: @ 1.167,7.750 GET m.id ;
137: SIZE 1.000,3.125 ;
138: DEFAULT " " ;
139: FONT "terminal", 8 ;
140: DISABLE
141: @ 1.167,19.750 GET m.name ;
142: SIZE 1.000,33.875 ;
143: DEFAULT " " ;
144: FONT "terminal", 8
145: @ 1.083,63.000 GET m.datatype ;
146: PICTURE "@ N-E:M:L" ;
147: SIZE 1.500,4.375 ;
148: DEFAULT "N" ;
149: FONT "terminal", 8 ;
150: VALID qsf0kq6mi() ;
151: DISABLE
152: @ 5.167,4.625 GET m.rulesuse ;
153: PICTURE "@a&N" ;
154: FROM m.rules
155: SIZE 4.667,62.875 ;
156: DEFAULT 1 ;
157: FONT "terminal", 8
158: @ 11.333,22.750 GET m.askable ;
159: SIZE 1.000,4.625 ;
160: DEFAULT .F. ;
161: FONT "terminal", 8
162: @ 13.167,4.750 EDIT m.question ;
163: SIZE 3.000,62.875,0.000 ;
164: DEFAULT " " ;
165: FONT "terminal", 8 ;
166: SCROLL ;
167: WHEN m.askable
168: @ 19.167,4.625 GET mp ;
169: PICTURE "@a&N" ;
170: FROM enum ;
171: SIZE 7.000,62.875 ;
172: DEFAULT 1 ;
173: FONT "terminal", 8 ;
174: WHEN m.datatype $ "EML" ;
175: VALID qsf0kq6t0()
176: @ 27.167,16.750 GET m.width ;
177: SIZE 1.000,13.000 ;
178: DEFAULT 0 ;
179: FONT "terminal", 8 ;
180: WHEN m.datatype = "N" ;
181: DISABLE
182: @ 27.167,49.750 GET m.dec ;
183: SIZE 1.000,16.000 ;
184: DEFAULT 0 ;
185: FONT "terminal", 8 ;
186: WHEN m.datatype = "N" ;
187: DISABLE
188: @ 29.167,16.750 GET m.hi ;
189: SIZE 1.000,13.000 ;
190: DEFAULT 0 ;
191: FONT "terminal", 8 ;
192: WHEN m.datatype = "N" ;
193: DISABLE
194: @ 29.167,34.750 GET m.lo ;
195: SIZE 1.000,13.000 ;
196: DEFAULT 0 ;
197: FONT "terminal", 8 ;
198: WHEN m.datatype = "N" ;

```

```

199: DISABLE
200: @ 29.333,55.750 GET m.units ;
201: SIZE 1.000,10.000 ;
202: DEFAULT " " ;
203: FONT "terminal", 8 ;
204: WHEN m.datatype = "N" ;
205: DISABLE
206: @ 31.000,27.000 GET m.buttons ;
207: PICTURE "@*HT OK:Cancel" ;
208: SIZE 1.917,8.375,0.750 ;
209: DEFAULT 1 ;
210: FONT "terminal", 8 ;
211: VALID qsf0kq6yy()
212: [
213: IF NOT WVISIBLE(" qsf0kq5ys")
214: ACTIVATE WINDOW _qsf0kq5ys
215: ]
216: ENDIF
217: READ CYCLE ;
218: WHEN _qsf0kq74f()
219: RELEASE WINDOW _qsf0kq5ys
220: #REGION 0
221: SET readborder &rborder
222: SET readborder &rborder
223: [
224: IF m.talkstat = "ON"
225: SET TALK ON
226: ]
227: ENDIF
228: [
229: IF m.compstat = "ON"
230: SET COMPATIBLE ON
231: ]
232: ENDIF
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: #REGION 1
241: SELECT dict
242: RETURN
243: ←
244: *
245: *
246: *
247: *
248: *
249: *
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: #REGION 1
260: FUNCTION setrules
261: PRIVATE msel,mvalid
262: msel = SELECT()
263: SELECT quals
264: SET FILTER TO id = m.id AND OBJECT = "S"

```

DDEDIT/Windows Cleanup Code

DDEDIT/Windows Supporting Procedures and Functions


```

396: SHOW GET m.lo ENABLE
397: SHOW GET m.units ENABLE
398: SHOW GETS
399: OTHERWISE
400: DO setenum
401: IF EMPTY(enum[1])
402: DO ddenum.spr WITH .T.
403: DO setenum
404: ENDF
405: SHOW GET mp ENABLE
406: SHOW GET m.width DISABLE
407: SHOW GET m.dec DISABLE
408: SHOW GET m.hi DISABLE
409: SHOW GET m.lo DISABLE
410: SHOW GET m.units DISABLE
411: SHOW GETS
412: ENDCASE

```

```

*_ _QSFOKQ6T0 mp VALID Record Number: 21
*_ Function Origin:
*_ From Platform: Windows
*_ From Screen: DDEDIT,
*_ Variable: mp Record Number: 21
*_ Called By: VALID Clause
*_ Object Type: List
*_ Snippet Number: 2

```

```

428: FUNCTION _qsfoKq6t0 && mp VALID
429: #REGION 1
430: DO edenum

```

```

*_ _QSFOKQ6YY mbuttons VALID
*_ Function Origin:
*_ From Platform: Windows Record Number: 27
*_ From Screen: DDEDIT,
*_ Variable: mbuttons
*_ Called By: VALID Clause
*_ Object Type: Push Button
*_ Snippet Number: 3

```

```

448: FUNCTION _qsfoKq6yy && mbuttons VALID
449: #REGION 1

```

```

450: DO CASE
451: CASE mbuttons = 1 && ok
452: SELECT dict
453: IF m.adding
454: APPEND BLANK
455: ENDF
456: GATHER MEMVAR
457: IF m.datatype $ "N"
458: = cleanenum()
459: SELECT VAL
460: IF m.adding
461: APPEND BLANK

```

```

462:
463: ENDF
464: GATHER MEMVAR
465: ENDF
466: CASE mbuttons = 2 && cancel
467: IF m.adding
468: = cleanenum()
469: ENDF
470: mok = .F.
471: ENDCASE

```

```

*_ _QSFOKQ74F Read Level When
*_ Function Origin:
*_ From Platform: Windows
*_ From Screen: DDEDIT
*_ Called By: READ Statement
*_ Snippet Number: 4

```

```

486: FUNCTION _qsfoKq74f && Read Level When
487: * When Code from screen: DDEDIT
488: *
489: #REGION 1
490: IF m.adding
491: SHOW GET m.datatype ENABLE
492: SHOW GET m.rulesuse DISABLE
493: ENDF
494: IF m.datatype $ "N"
495: PRIVATE msel
496: msel = SELECT()
497: SELECT VAL
498: SCATTER MEMVAR
499: SHOW GET mp DISABLE
500: SHOW GET m.width ENABLE
501: SHOW GET m.dec ENABLE
502: SHOW GET m.hi ENABLE
503: SHOW GET m.lo ENABLE
504: SHOW GET m.units ENABLE
505: SHOW GETS
506: ENDF
507: * EOF: DDEDIT.ac1

```



```

133: SET readborder &rborder
134:
135: IF m.talkstat = "ON"
136: SET TALK ON
137: ENDIF
138: IF m.compstat = "ON"
139: SET COMPATIBLE ON
140: ENDIF
141:
142:
143:
144:
145:
146:
147:
148:
149:
150:
151:
152:
153:
154:
155:
156:
157:

```

Function Origin:	m.mutex VALID	Record Number:	6
From Platform:	Windows		
From Screen:	DDENUM,		
Variable:	m.mutex		
Called By:	VALID Clause		
Object Type:	Field		
Snippet Number:	1		

```

158: FUNCTION _qsf0kq9mb && m.mutex VALID
159: #REGION 1
160: DO CASE
161: CASE m.datatype $ "EL"
162: RETURN m.mutex $ "-"
163: CASE m.datatype $ "M"
164: RETURN m.mutex $ "-+"
165: ENDCASE
166: RETURN .F.
167:
168:
169:
170:
171:
172:
173:
174:
175:
176:
177:
178:
179:
180:
181:
182:
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191:
192:
193:
194:
195:
196:
197:
198:

```

Function Origin:	m.buttons VALID	Record Number:	8
From Platform:	Windows		
From Screen:	DDENUM,		
Variable:	m.buttons		
Called By:	VALID Clause		
Object Type:	Push Button		
Snippet Number:	2		

```

199: FUNCTION _qsf0kq9qc && m.buttons VALID
200: #REGION 1
201: DO CASE
202: CASE m.buttons = 1 && add
203: IF m.enumadd
204: APPEND BLANK
205: GATHER MEMVAR
206: ENDDO
207: m.enumadd = .T.
208: m.neword = 0
209: DO WHILE id = m.dictid
210: m.neword = ord
211: SKIP
212: ENDDO
213: SCATTER MEMVAR BLANK
214: m.ord = m.neword + 1

```

```

199: m.id = m.dictid
200: m.mutex = "-"
201: CUROBJ = OBJNUM(m.mutex)
202: SHOW GETS
203: CASE m.buttons = 2 && ok
204: IF m.enumadd
205: APPEND BLANK
206: ENDDO
207: m.ok = .T.
208: GATHER MEMVAR
209: CLEAR READ
210: CASE m.buttons = 3 && cancel
211: m.ok = .F.
212: CLEAR READ
213: ENDCASE
214: *: EOF: DDENUM.ac1

```



```

118: FONT "Terminal", 8 ;
119: WHEN loadok() ;
120: VALID qsf0kqcbt() ;
121: DISABLE
122: @ 17.417,34.875 GET mbuttonc ;
123: PICTURE "@*VT Cancel" ;
124: SIZE 2.250,7.875,1.083 ;
125: DEFAULT 1 ;
126: FONT "Terminal", 8
127: @ 1.250,0.750 SAY "Read From Definition file:" ;
128: FONT "Terminal", 8
129: @ 6.083,0.750 SAY "Create Files in Temporary directory:" ;
130: FONT "Terminal", 8
131:
132:
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
145:
146:
147:
148:
149:
150:
151:
152:

```

```

[ IF NOT WVISIBLE("qsf0kqb51")
  ACTIVATE WINDOW _qsf0kqb51
]
ENDIF

```

READ CYCLE MODAL

RELEASE WINDOW _qsf0kqb51

#REGION 0

SET readborder &rborder

```

[ IF m.talkstat = "ON"
  SET TALK ON
]
ENDIF

```

```

[ IF m.compstat = "ON"
  SET COMPATIBLE ON
]
ENDIF

```

153:

154:

155:

156:

157:

158:

159:

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162:

163:

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165:

166:

167:

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172:

173:

174:

175:

176:

177:

178:

KBLOAD/Windows Cleanup Code

#REGION 1

SET DEFA TO (m.home)
ON ERROR
* load enable

--CASE _DOS

#REGION 0

REGIONAL m.currarea, m.talkstat, m.compstat

```

[ IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
]
ELSE
  m.talkstat = "OFF"
]
ENDIF

```

m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS

179:

180:

181:

182:

183:

184:

185:

186:

187:

188:

189:

190:

191:

192:

193:

194:

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218:

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221:

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223:

224:

225:

226:

227:

228:

229:

MS-DOS Window definitions

```

[ IF NOT WEXIST("qsf0kqc17")
  DEFINE WINDOW qsf0kqc17 ;
  FROM INT((SROW()-18)/2),INT((SCOL()-55)/2) ;
  TO INT((SROW()-18)/2)+1,INT((SCOL()-55)/2)+54 ;
  TITLE "Knowledge Base Loader" ;
  FLOAT ;
  NOCLOSE ;
  SHADOW ;
  NOMINIMIZE ;
  DOUBLE ;
  COLOR SCHEME 5
]
ENDIF

```

KBLOAD/MS-DOS Setup Code - SECTION 2

#REGION 1

m.home = CURDIR()
m.driv = m.new
m.src = ""
m.fil = ""
m.ok = F.

SET DEFA TO (m.data)
DEFINE POPUP listdir ;
PROMPT FILES LIKE * ;
SCROLL ;
MARGIN ;
MARK " "

ON ERROR m.src = ""

KBLOAD/MS-DOS Screen Layout

#REGION 1

```

291: #REGION 1
292: SET DEFA TO (m.home)
293: ON ERROR
294: * load enable
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
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=>
=>
=>
=>
=>
289:
=>
290:

```

```

IF WVISIBLE(" qsf0kqci7")
ELSE
ACTIVATE WINDOW _qsf0kqci7 SAME
ACTIVATE WINDOW _qsf0kqci7 NOSHOW
ENDIF
@ 2,1 GET m.src ;
SIZE 1,30 ;
DEFAULT " " ;
VALID _qsf0kqcp2()
@ 6,1 GET m.new ;
SIZE 1,30 ;
DEFAULT " " ;
VALID _qsf0kqcro() ;
DISABLE
@ 7,1 GET m.dbf ;
PICTURE "a&n" ;
POPUP listdir ;
SIZE 9,30 ;
DEFAULT " " ;
WHEN _qsf0kqcu() ;
VALID _qsf0kqwt() ;
COLOR SCHEME 6
@ 13,42 GET m.load ;
PICTURE "a*VT Load" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
WHEN loadok() ;
VALID _qsf0kqz() ;
DISABLE
@ 15,42 GET m.buttonc ;
PICTURE "a*VT Cancel" ;
SIZE 1,8,1 ;
DEFAULT 1
@ 1,1 SAY "Read From Definition file." ;
SIZE 1,26,0
@ 5,1 SAY "Create Files in Temporary directory." ;
SIZE 1,36,0

```

```

IF NOT WVISIBLE(" qsf0kqci7")
ACTIVATE WINDOW _qsf0kqci7
ENDIF
READ CYCLE MODAL
RELEASE WINDOW _qsf0kqci7
#REGION 0
IF m.talkstat = "ON"
SET TALK ON
ENDIF
IF m.compmat = "ON"
SET COMPATIBLE ON
ENDIF

```

```

FUNCTION _qsf0kqbnk
Function Origin: m.src VALID
From Platform: Windows
From Screen: KBLOAD, Record Number: 2
Variable: m.src
Called By: VALID Clause
Object Type: Field
Snippet Number: 1

```

```

FUNCTION _qsf0kqbt0
Function Origin: m.new VALID
From Platform: Windows
From Screen: KBLOAD, Record Number: 3
Variable: m.new
Called By: VALID Clause
Object Type: Field
Snippet Number: 2

```

```

FUNCTION _qsf0kqci1j
Function Origin: m.dbf WHEN
From Platform: Windows
From Screen: KBLOAD, Record Number: 4
Variable: m.dbf
Called By: WHEN Clause
Object Type: List
Snippet Number: 3

```

```

FUNCTION _qsf0kqci1j
Function Origin: m.dbf WHEN
From Platform: Windows
From Screen: KBLOAD, Record Number: 4
Variable: m.dbf
Called By: WHEN Clause
Object Type: List
Snippet Number: 3

```

```

357: #REGION 1
358: m.new = PRMBAR("listdir",2)
359: IF FILE(m.new + "\nul")
360: SHOW OBJECT OBJNUM(m.new) ENABLE
361: ELSE
362: SHOW OBJECT OBJNUM(m.new) DISABLE
363: ENDF
364: =loadok()
365: *
366: *
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
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414: *
415: *
416: *
417: *
418: *
419: *
420: *
421: *
422: *

```

```

_QSF0KQC42      m.dbf VALID
Function Origin:
From Platform:  Windows
From Screen:    KBLOAD, Record Number: 4
Variable:       m.dbf
Called By:      VALID Clause
Object Type:    List
Snippet Number: 4

```

```

FUNCTION _qsf0kqc2  && m.dbf VALID
#REGION 1
=loadok()

```

```

_QSF0KQC6T      m.load VALID
Function Origin:
From Platform:  Windows
From Screen:    KBLOAD, Record Number: 5
Variable:       m.load
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number: 5

```

```

FUNCTION _qsf0kqc6t  && m.load VALID
#REGION 1
m.srcbak = m.src
m.valid = checkfile(m.new)
IF m.valid
SHOW GET m.load DISABLE
CUROBJ = OBJNUM(m.dbf)
m.src = m.srcbak
SHOW GETS
RETURN
ENDIF
olderr = ON("error")
mrun = m.src + " " + m.new
m.temp = CURDIR()
m.t1 = LOCFILE("rulex", "exe", "where is file RULEX.EXE")
m.t1 = SUBSTR(m.t1, 1, AT("RULEX.EXE", m.t1) - 1)
SET DEFA TO (m.t1)
RUN /400 rulex &mrun
SET DEFA TO (m.temp)
= popupshow("working.....")
DO kbldr WITH m.new
= popuphide()

```

ON ERROR &olderr
CLEAR READ

```

_QSF0KQCP2      m.src VALID
Function Origin:
From Platform:  MS-DOS
From Screen:    KBLOAD, Record Number: 11
Variable:       m.src
Called By:      VALID Clause
Object Type:    Field
Snippet Number: 6

```

```

FUNCTION _qsf0kqcp2  && m.src VALID
#REGION 1
m.src = LOCFILE(m.src)
=loadok()

```

```

_QSF0KQCR0      m.new VALID
Function Origin:
From Platform:  MS-DOS
From Screen:    KBLOAD, Record Number: 12
Variable:       m.new
Called By:      VALID Clause
Object Type:    Field
Snippet Number: 7

```

```

FUNCTION _qsf0kqcro  && m.new VALID
#REGION 1
=loadok()

```

```

_QSF0KQCUA      m.dbf WHEN
Function Origin:
From Platform:  MS-DOS
From Screen:    KBLOAD, Record Number: 13
Variable:       m.dbf
Called By:      WHEN Clause
Object Type:    List
Snippet Number: 8

```

```

FUNCTION _qsf0kqcu  && m.dbf WHEN
#REGION 1
m.new = PRMBAR("listdir",2)
IF FILE(m.new + "\nul")
SHOW OBJECT OBJNUM(m.new) ENABLE
ELSE
SHOW OBJECT OBJNUM(m.new) DISABLE

```

```

489: _ENDIF
490: =loadok(
491: *
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
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```

```

_QSF0KQCWT
Function Origin:
From Platform: MS-DOS
From Screen: KBLOAD,
Variable: m.dbf,
Called By: VALID Clause
Object Type: List
Snippet Number: 9
Record Number: 13

```

```

FUNCTION _qsf0kqcwt && m.dbf VALID
#REGION 1
=loadok(

```

```

_QSF0KQCZG
Function Origin:
From Platform: MS-DOS
From Screen: KBLOAD,
Variable: m.load,
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 10
Record Number: 14

```

```

FUNCTION _qsf0kqczg && m.load VALID
#REGION 1
mrun = m.src + " " + m.new
m.temp = CURDIR(
m.t1 = LOCFILE("rulex.exe")
m.t1 = SUBSTR(m.t1, 1, AT("RULEX.EXE", m.t1) - 1)
SET DEFA TO (m.t1)
RUN /400 rulex &mrun
SET DEFA TO (m.temp)
DO kbldr WITH m.new

```

```

KBLOAD/MS-DOS Supporting Procedures and Functions

```

```

#REGION 1

```

```

KBLOAD Function LOADOK

```

```

555: PROCEDURE loadok
556: --DO CASE
557: --CASE _DOS
558: m.ok = .T.
559: IF EMPTY(m.src)
560: m.ok = .F.
561: ENDIF
562: m.ok = m.ok .AND. FILE(m.src)
563: m.new = ALLTRIM(m.new)
564: IF EMPTY(m.new)
565: m.ok = .F.
566: ENDIF
567: IF RIGHT(m.new, 1) != "\"
568: m.new = m.new + "\"
569: ENDIF
570: m.d1 = IIF(RIGHT(m.data, 1) != "\" , m.data + "\" , m.data)
571: IF UPPER(FULLPATH(m.new)) == UPPER(FULLPATH(m.d1))
572: m.ok = .F.
573: ENDIF
574: IF FILE(m.new + ".nu")
575: m.ok = .F.
576: ENDIF
577: IF m.ok
578: SHOW OBJECT OBJNUM(m.load) ENABLE
579: ELSE
580: SHOW OBJECT OBJNUM(m.load) DISABLE
581: ENDIF
582: RETURN m.ok
583: --CASE WINDOWS
584: m.ok = .T.
585: IF EMPTY(m.src)
586: m.ok = .F.
587: ENDIF
588: m.ok = m.ok .AND. FILE(m.src)
589: m.new = ALLTRIM(m.new)
590: IF EMPTY(m.new)
591: m.ok = .F.
592: ENDIF
593: IF RIGHT(m.new, 1) != "\"
594: m.new = m.new + "\"
595: ENDIF
596: m.d1 = IIF(RIGHT(m.data, 1) != "\" , m.data + "\" , m.data)
597: IF UPPER(FULLPATH(m.new)) == UPPER(FULLPATH(m.d1))
598: m.ok = .F.
599: ENDIF
600: IF !FILE(m.new + ".nu")
601: m.ok = .F.
602: ENDIF
603: IF m.ok
604: SHOW OBJECT OBJNUM(m.load) ENABLE
605: ELSE
606: SHOW OBJECT OBJNUM(m.load) DISABLE
607: ENDIF
608: RETURN m.ok
609: --ENDCASE
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: FUNCTION checkfile

```

```

KBLOAD Function CHECKFILE

```

```

621: PARAMETER m.new
622: PRIVATE m.exist, m.fload
623: m.exist = .F.
624: DO CASE
625: CASE FILE(m.new + "area.dbf")
626: m.exist = .T.
627: CASE FILE(m.new + "rule.dbf")
628: m.exist = .T.
629: CASE FILE(m.new + "premise.dbf")
630: m.exist = .T.
631: CASE FILE(m.new + "fact.dbf")
632: m.exist = .T.
633: CASE FILE(m.new + "action.dbf")
634: m.exist = .T.
635: CASE FILE(m.new + "disease.dbf")
636: m.exist = .T.
637: CASE FILE(m.new + "dict.dbf")
638: m.exist = .T.
639: CASE FILE(m.new + "val.dbf")
640: m.exist = .T.
641: CASE FILE(m.new + "enum.dbf")
642: m.exist = .T.
643: ENDCASE
644: m.fload = .T.
645: IF m.exist
646: m.fload = yesno("Database in " + m.new + " already exist, overwrit
=> e & delete it?", "YES", "NO")
647: ENDIF
648: RETURN m.fload
649:
650: *: EOF: KBLOAD.ac1

```

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