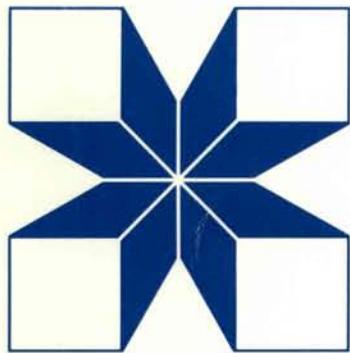


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C A N A D A

**MINISIS USERS' GROUP  
MEETING 1991**

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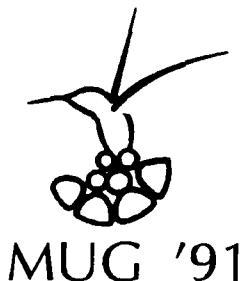
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**Proceedings  
of the 12th Annual  
MINISIS Users' Group Meeting**

**Compte rendu  
de la 12<sup>e</sup> Réunion annuelle  
du Groupe des Utilisateurs de MINISIS**



**United Nations Economic Council for Latin America and the Caribbean (UN-ECLAC)  
and the University of the West Indies (UWI)**

**le Conseil économique des Nations Unies pour l'Amérique latine et les Caraïbes  
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# Bilingual Thesauri and Indexing

*Anne Barkworth and Sylvain Lemieux*

## 1. Background

The Canadian Institute for International Peace and Security is a Crown Corporation of the Federal Government of Canada. The mandate of the Institute is to "increase knowledge and understanding of the issues relating to international peace and security from a Canadian perspective, with particular emphasis on arms control, disarmament, defence and conflict resolution". One way it accomplishes this is through the collection and dissemination of information on issues of international peace and security; and to do this the Institute has an Information Services division with a library. It is through the library that the Institute acquired MINISIS in February 1989. An existing micro-computer-based database containing about 30,000 bibliographic records was transferred onto MINISIS, along with the in-house thesaurus. Then, of course, the work began of customizing MINISIS to respond to the Institute's needs.

In compliance with the official languages policy of the Government of Canada, Crown Corporations are required to provide services in both official languages (French and English). Our main challenge was to operate a database equally efficiently in both French and English, and this was the main criteria when we selected a database management software. As our choice, MINISIS performs admirably, providing the user with a multilingual, although somewhat basic, user interface.

Other requirements were that the bibliographic records were to contain thesaurus terms in the language of the document independently of which language the indexers used; and that a print bibliography and a bilingual thesaurus could be produced. MINISIS did not fully meet these requirements, so our consultant, Anne Barkworth, had to find creative ways to provide these within the system, sticking to solutions that would be easy to maintain in-house.

## **2. Indexing**

When indexing a record for our bibliography, we wanted the thesaurus terms to be in the language of the document. Even though our indexers have a working knowledge of both languages, there is always one language with which they feel more comfortable, and we wanted to provide them with the option of working principally in that language. The solution devised was to create stream jobs that would check the language code of the record and, if need be, translate the thesaurus terms to match the language code. In the case of bilingual records, we wanted thesaurus terms to appear in both languages in the record. The three jobs created were:

<b>THETOFS.STREAM</b>	to translate thesaurus terms from English to French;
<b>THFTOE.STREAM</b>	to translate thesaurus terms from French to English;
<b>THBIL.STREAM</b>	to add either French or English Thesaurus terms to the records as required for bilingual records.

### **2.2 JOB THETOFS.STREAM**

The first stage of preparation was to set up a data submodel (DS) called BIBTHES. This DS links the master relational database (RD), BIB, to a KSAM through the field A170 (Thesaurus field). This link is made in order to allow the extraction of the French equivalent of the terms stored in field A170 in BIB. It is performed by joining field A170 to field T100 (Main Term English) of the ETOF KSAM (Figure 1).

KSAMs ETOF and FTOE were created to ensure the correct joining of field A170 to field T100 and T110. The THESMAS database uses word inversion for T100 and T110 so when we first tried making a direct join to the THESMAS database, we retrieved incorrect values because keys in the THESMAS database were word extracted. In addition, using the

DS join on a master DB field as the right hand component we encountered a virtual flattening problem which resulted in an incorrect number of keys being generated in INDEX. We therefore built 2 KSAMs and loaded the 2 fields T100 and T110 into them from the THESMAS database. This proved to be the solution, and with these KSAMs we were able to generate the right number of correct keys.

The job, then, uses the DS BIBTHES to retrieve records that have both a language code of FRE for French and that were indexed after a certain date (the date should be reset each time you run the job). The job itself consists of three main operations: 1) index the records using the French values provided through the join and using the option SHOWOCC to extract occurrence numbers (Figure 2); 2) sort the output file from the INDEX processor in descending order of occurrence, using the HP Sort utility (Figure 3); 3) using the UPDATE processor, transfer the Y010 value from the sorted index file to field A170 and delete the old value using the occurrence numbers (Figures 3 & 4).

A full listing of the job and data structures of BIB, BIBTHES and THESMAS are in Appendices I, II and III.

### **2.3 JOB THFTOE.STREAM**

The job THFTOE.STREAM operates basically the same way THETOFS.STREAM does, except that it uses a DS called BIBTHESF which links the thesaurus field of BIB (A170) to the Main term French field of THESMAS (T110) in order to retrieve records with a language code of ENG for English. The job also sorts on the English values provided by the join (T100).

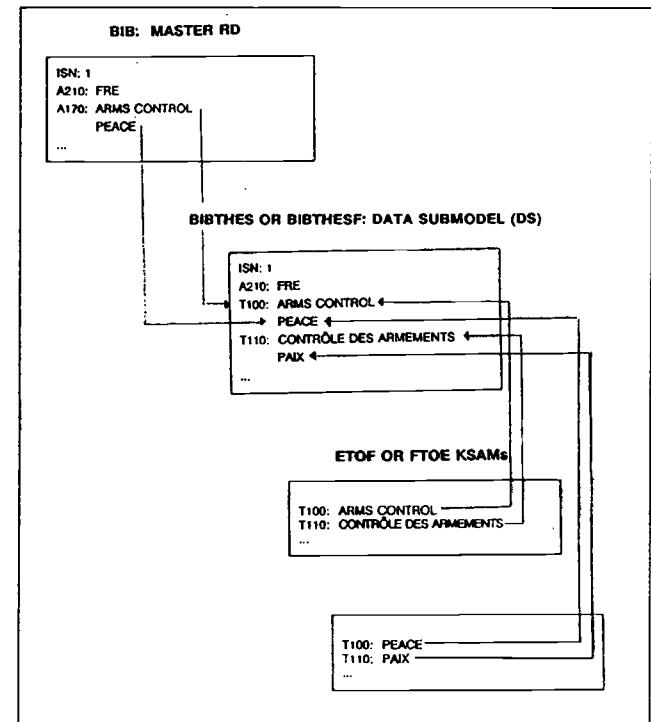
A full listing of the job and data structures of BIB, BIBTHESF and THESMAS are in Appendices I, II, and III.

### **2.4 JOB THBIL.STREAM**

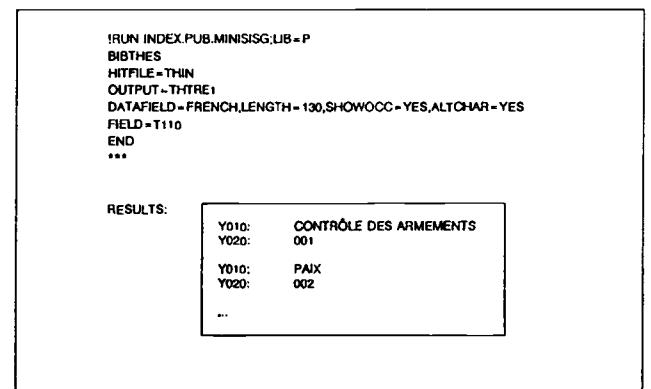
The DS BIBTHESB is used in this job to link the BIB database (field A170) to the ETOF database

field T100, as well as to the FTOE database field T110. The index processor then extracts the data if a join is made (Figure 6) and stores both T100 and T110 in the primary key. The job then uses UPDATE (in batch) to delete all occurrences of the A170 field (which have been safely stored away in the index output file), and then a second UPDATE (in batch) transfers the data from the Y-TAG into A170.

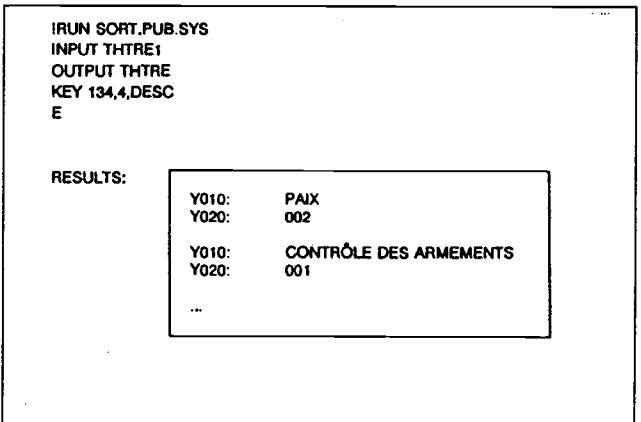
**Figure 1: DATABASE SETUP - JOBS THETOFS AND THFTOE**



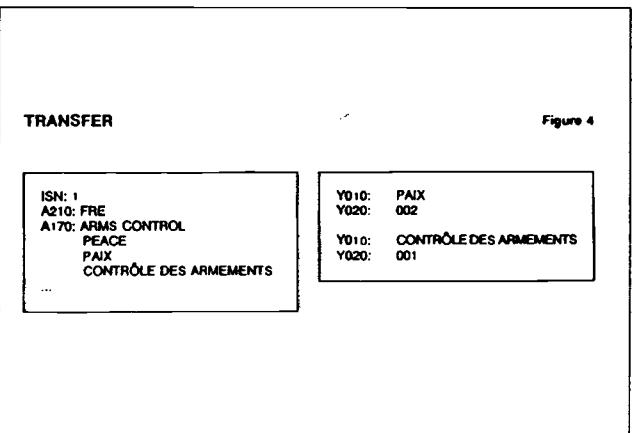
**Figure 2: STEP 1 - INDEX ON BIBTHES**



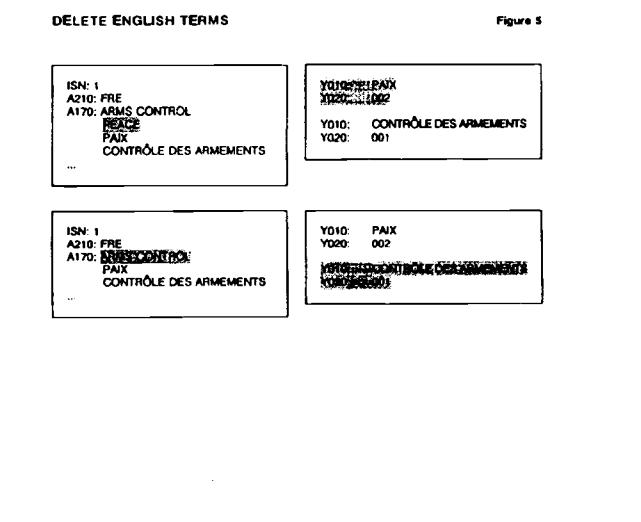
**Figure 3: SORT USING THE HP SORT UTILITY**

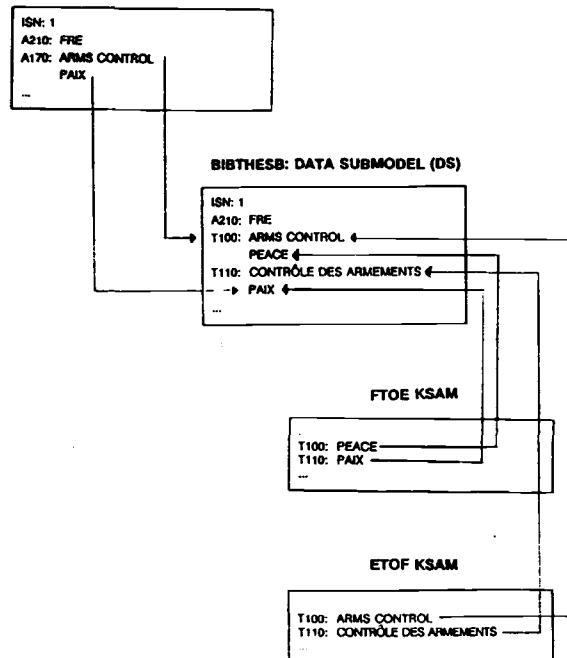


**Figure 4: STEP 3 - TRANSFER Y010 TO A170 OF THE BIB RECORD**



**Figure 5: DELETE ENGLISH TERMS**



**Figure 6: DATABASE SETUP - JOB THBIL**

<b>French thesaurus record</b>	
French Descriptor	SÉCURITÉ COLLECTIVE
English Descriptor	COLLECTIVE SECURITY
Scope Note	NC Engagement collectif illimité pris pour faire échec à toute agression n'importe où dans le système international...
Broader Term	TG SÉCURITÉ
Related Terms	TA ALLIANCES SÉCURITÉ COMMUNE

The THESMAS record entry for the preceding records would look like this:

ISBN	ISBN=163
Main Term English	T100 MTE : Collective Security
Main Term French	T110 MTF : Sécurité collective
Broader Term	T320 BT : SECURITY
Related Term	T340 RT : ALLIANCES COMMON SECURITY

Type of Term	T800 TT	: S
Scope Notes English	T810 PN	: An Arrangement of unlimited commitment to counter aggression anywhere within the international system...
Scope Notes French	T860 PRF	: Engagement collectif illimité pris pour faire échec à toute aggression n'importe où dans le système international...

As you can see from the above example, the relationships for each term are stored in English only. In order to print the English record, we simply pull the information out of the THESMAS records and print it. Printing the French records, however, is slightly more complicated. Since the relationships are not stored in the THESMAS record in French, we had to devise a way for MINISIS to replace the English relationships by their French equivalents. A job was created to convert the relationship information from English to French before printing.

### 3. Printing of the Bilingual Thesaurus

The Institute's printed bilingual thesaurus is a reproduction of the online thesaurus.

#### *English thesaurus record*

English Descriptor	COLLECTIVE SECURITY
French Descriptor	SÉCURITÉ COLLECTIVE
Scope Note	SN An arrangement of unlimited commitment to counter aggression anywhere within the international system...
Broader Term	BT SECURITY
Related Term	RT ALLIANCE COMMON SECURITY

Three KSAMs were built to hold BROADER TERMS (THBT), NARROWER TERMS (THNT) and RELATED TERMS (THRT). In turn, these three KSAMs were linked to the THESMAS database through a DS called THESDS (Figure 6). The job is called THESAURF.STREAM and performs the following operations:

### STEP 1

Using a special print format (THBTPF.FORMATS), the job prints to disk every set of English Main Terms with their French translations (Main Term French). The resulting disk file is called THESBT and is used to translate BROADER TERMS (BT).

```
!FILE OUTFL=THESBT;DEV=DISC;DISC=10000;NOCCTL
```

```
IPRINT
```

```
THESMAS
```

```
THBTPF.FORMATS
```

```
T800=S
```

```
END
```

### RESULTS:

```
!REC-ID  
*Z100*Caribbean Region  
*Z110*Région des Caraïbes
```

```
!REC-ID  
*Z110*Barbados
```

### STEP 2

The file THESBT is then copied twice to create the files THESNT for NARROWER TERMS (NT) and THESRT for RELATED TERMS.

```
!FCOPY FROM=THESBT;TO=THESNT;NEW
```

```
!FCOPY FROM=THESBT;TO=THESRT;NEW
```

### STEP 3

The three KSAMs are emptied to receive the relationship information.

```
!RUN DATADICT.UTILITY.MINISISG;LIB=P
```

```
ERASE DB=THBT
```

```
ERASE DB=THRT
```

```
ERASE DB=THNT
```

```
EXIT
```

### STEP 4

The disc files THESBT, THESRT, and THESNT are edited using EDITOR to turn them into BATCHIN files for the KSAMS. Note that for the copies of the THESBT disk file (THESNT and THESRT) the label prefix has to be changed to match the labels of the fields in the KSAMs.

```
!EDITOR
```

```
T THESBT
```

```
C1/80 TO "!DB=THBT"IN 1
```

```
C1/80 TO "!CHANGE STARTER=*,ENDER=*,STRIP=YES,IN  
2
```

```
K THESBT,UNN
```

```
Y
```

```
T THESRT
```

```
C1/80 TO "!DB=THRT"IN 1
```

```
C1/80 TO "!CHANGE STARTER=*,ENDER=*,STRIP=YES,IN  
2
```

```
CQ"*Z" TO "*W"IN ALL
```

```
K THESRT,UNN
```

```
Y
```

```
T THESNT
```

```
C1/80 to "!DB=THNT"IN 1
```

```
C1/80 TO "!CHANGE STARTER=*,ENDER=*,STRIP=YES,IN  
2
```

```
CQ"*Z"TO"*X"IN ALL
```

```
K THESNT,UNN
```

```
Y
```

```
E
```

## STEP 5

A BATCHIN is performed on the three KSAMs using the BATCHIN files just created.

```
!RESET OUTFL
!FILE BATCH=THESBT;DEV=DISC
!RUN BATCHIN.UTILITY.MINISISG;LIB=P
THBT
EXIT
!FILE BATCH=THESNT;DEV=DISC
!RUN BATCHIN.UTILITY.MINISISG;LIB=P
THNT
EXIT
!FILE BATCH=THESRT;DEV=DISC
!RUN BATCHIN.UTILITY.MINISISG;LIB=P
THRT
EXIT
```

## STEP 6

The BATCHIN files THESNT and THESRT are purged after being loaded into the KSAMs. We could have purged THESBT here too, but we left it alone so that if for any reason the job failed we would be able to resume operations from this point.

```
!PURGE THESNT
!PURGE THESBT
```

## STEP 7

INDEX is used to select all the records from the THESDS database (the root of which is THESMAS, joined to THBT, THNT and THRT) which meet the criteria:

This creates 2 keys only. If all the fields had been specified as separate keys it would have been a nightmare to try and suppress the extra primary keys in the print process, since the print format already

```
TYPE CODE (T800)=S.
!INDEX
THESDS
T800=S
OUTPUT=THESF
USE=THESKEYF
PRIMARY KEY = THE FRENCH TERM
KEY=TERM, LENGTH=130,ALTCHAR=YES
FIELD=T110
ALTERNATIVE=T210
END
SECONDARY KEY = RELATIONSHIPS
KEY=LUCK, LENGTH=130, ALTLABEL=YES, ALTCHAR=YES
FIELD=T610
ALTERNATIVE=T210, OCC=ALL, PREFIX="Y020"
FIELD=Z110, OCC=ALL, PREFIX="Y030"
FIELD=X110, OCC=ALL, PREFIX="Y040"
FIELD=W110, OCC=ALL, PREFIX="Y050"
FIELD=T800, PREFIX="Y060"
END
```

contains many fields using the EQUAL SUPPRESSION command.

By assigning prefixes to the fields, we are effectively sorting all the relationship terms in one key , while still maintaining separate relationships.

```
Y030 CONTRÔLE DES ARMEMENTS
Y030 PRINCIPES DE DÉFENSE
Y040 MANIFESTATIONS POPULAIRES
Y040 RÉVOLUTIONS
ETC..
```

ALTLABEL is used to place each separate field from which the key is extracted into a separate Y-TAG. For example, all W110 values extracted are stored in field Y050 in the Index file.

**STEP 8**

This step is a bit more complicated. We have generated an index output file which contains blank records and where secondary keys are not present. BLANK=NO would have suppressed the primary key if no secondary key existed, but we did not want to do this. We therefore had to eliminate from the Index output file those records which did not have values in the secondary key. We used the command "FCOPY" with the "EXCLUDE" option.

Using this command we exclude any blank keys.

```

!PURGE THES1
!PURGE THES2
!PURGE THES3
!PURGE THESFOLD
!RENAME THESF,THESFOLD
!FCOPY FROM=THESFOLD;TO=THES1;NEW;SUBSET="Y020  ",135,EXCLUDE
!FCOPY FROM=THES1;TO=THES2;NEW;SUBSET="Y030  ",265,EXCLUDE
!FCOPY FROM=THES2;TO=THES3;NEW;SUBSET="Y040  ",395,EXCLUDE
!FCOPY FROM=THES3;TO=THESF;NEW;SUBSET="Y030  ",525,EXCLUDE

```

**STEP 9**

The easiest procedure remains. All we have to do is print the Thesaurus using the print format designed for it. Since our Thesaurus is edited for final printing using a word processor (WordPerfect), the file is printed to disk.

```

!RESET OUTFL
!PURGE THESFRE
!PRINT
THESMAS
THESFRE.FORMATS
HITFILE=THESF
END

```

*Appendix I - Database Data Definitions*

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#### **L1STRUCT DATA DEFINITION**

PAGE 1

FIELD NAME	MNEMONIC TAG	T H I L T D O N V A K N E F Y H X	X X	I I	I I	H I	N A
	C	E R C L T E	L F P E T	T I	O L L	L G L	M E
	O	Y K E Y	E S R R	R R	P E E	E E	

\*\*\* Database : 8

18 APR/AVR 1991

## LISTDOT DATA DEFINITION

PAGE 2

FIELD NAME	MNEMONIC TAG	T	H	I	L	N	R	S	P	M	V	I	A	E
		O	L	N	D	R	S	P	M	B	V	I	I	I
		F	E	U	E	U	E	R	A	U	I	A	R	X
		F	N	M	C	P	B	O	N	P	S	L	G	I
		S	G	E	E	F	M	N	D	I	V	G	G	T
		E	T	R	P	A	L	P	Y	C	L	F	F	N
		C	E	R	C	L	T	E	L	F	P	E	L	M
		D	Y	K	E	Y	E	S	R	R	P	E	E	E
HNUMB Notation Numbering (A380)	HNUMB	A380	-1	20										
WAIT Days to Wait (A390)	WAIT	A390	-1	4										
DNXT Date Next Issue Expected	DNXT	A400	-1	10										
SCOPY Copies of Serial (A410)	SCOPY	A410	-1	2										
MOLO Holdings (A420)	MOLO	A420	-1	156										
II Issue Identification (A421)	II	A421	-1	20										
ICR Issue Copies Received (A422)	ICR	A422	-1	2										
IN Issue Note (A423)	IN	A423	-1	100										
IDR Issue Date Received (A424)	IDR	A424	-1	10										
ILD Issue Last Date Rec'd (A425)	ILD	A425	-1	10										
IS Issue Status (A426)	IS	A426	-1	4										
ISO Issue Status Date (A427)	ISO	A427	-1	10										
SUMH Summary Holdings (A430)	SUMH	A430	-1	500										
NI Notes - Indexes (A440)	NI	A440	-1	200										
NC Notes - Cumulations (A450)	NC	A450	-1	200										
NS Notes - Supplements (A460)	NS	A460	-1	200										
PHIST Publishing History (A470)	PHIST	A470	-1	100										
RPOL Retention Policy (A480)	RPOL	A480	-1	100										
OISP Disposition (A490)	OISP	A490	-1	100										
BIND Blinding Policy (A500)	BIND	A500	-1	100										
RCODE Routing IO Code (A510)	RCODE	A510	-1	10	Y	Y	Y	Y	Y	8	1	10		
SNOTE Serials Notes (A520)	SNOTE	A520	-1	200										
CIRC Circulation Data (A530)	CIRC	A530	-1	152	Y	Y	Y							
COPYN Copy Number (Issue #) A531	COPYN	A531	-1	20										
BCODE Borrower ID Code (A532)	BCODE	A532	-1	10	Y	Y	Y	Y	Y	8	1	10		
OLQAN Loan Date (A533)	OLQAN	A533	-1	10										
DRET Return Date (A534)	DRET	A534	-1	10	Y	Y	Y	Y	Y	8	1	10		
CNOTE Circulation Note (A535)	CNOTE	A535	-1	100										
RFLAG Reserve Flag (A536)	RFLAG	A536	-1	2										
RESRV Reserve Information (A540)	RESRV	A540	-1	50	Y	Y	Y	Y	Y					
PCODE Patron IO Code (A541)	PCODE	A541	-1	20	Y	Y	Y	Y	Y					C010
DRES Date Reserved (A542)	DRES	A542	-1	10										
RISS Reserve Issue Number (A543)	RISS	A543	-1	20										
LCNT Loan Count (A550)	LCNT	A550	-1	6										
OLAST Date Last Loaned (A560)	OLAST	A560	-1	10										
SEE See Reference (A570)	SEE	A570	-1	80										
SEEALS See Also Reference (A580)	SEEALS	A580	-1	80	Y	Y								
Title, MONOGRAPHIC /TS	MT	A590	-1	400						Y	8	80	W 30	W 0
MTADD Add'l monograph title A600	MTADD	A600	-1	400	Y					Y	8	80	W 30	W 0
Author, MONOGRAPHIC /CV	MAU	A610	-1	100	Y					Y	8	10	W 30	W ANY2 AUTH
Corp. Author, MONOGRAPHIC /CV	MCA	A620	-1	400	Y					Y	8	80	W 30	W ANY2 AUTH
Geographic Identifier /VL	GEO	A630	4	130	Y	Y	Y	Y	Y	K Y	130	130 D	ANY1 THES	THES
Conference, Addt.Title /TS	CONF	A640	-1	300	Y	Y	Y	Y	Y	Y	8	80	W 30	W A180
A970 Temporary Thesaurus Terms	TT	A970	-1	100	Y	Y	Y	Y	Y	8	1	100		A970
R100 Rerun Field	RENUM	R100	-1	6	Y									
V290 FIELD FOR PURVER STUFF	V290	V290	-1	990	Y									

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	O L ND RSPNDBVPIIIIN TL SSA I LV A E F E UE EURAUIARNNNNNU YE TTN N OA R X F N MC PBONPBLIVVVVM PN RPY V GL G I S G E EFMD IM I E T RP ALPTCLO OROTTE EE PFF F CF N FIELD NAME MNEMONIC TAG T N IL TDTOHVAKNEFYHX XX II I HI A C E RCLTE LF PET TT OLL L GL M D YK EY ESR RR PEE E E E	
*** Database : BIBTHES		
Thesaurus /VL	TH A170 4 130 Y Y Y Y KY 130 130 0	THES THES
T100 English Thesaurus Term	ETERM T100 4 130 Y Y K	
T110 French Term	FTERM T110 136 130 Y Y K	

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	O L ND RSPNDBVPIIIIN TL SSA I LV A E F E UE EURAUIARNNNNNU YE TTN N OA R X F N MC PBONPBLIVVVVM PN RPY V GL G I S G E EFMD IM I E T RP ALPTCLO OROTTE EE PFF F CF N FIELD NAME MNEMONIC TAG T N IL TDTOHVAKNEFYHX XX II I HI A C E RCLTE LF PET TT OLL L GL M D YK EY ESR RR PEE E E E	
*** Database : BIBTHESB		
Thesaurus /VL	TH A170 4 130 Y Y Y Y KY 130 130 0	THES THES
T100 English Thesaurus Term	ETERM T100 4 130 Y Y K	
T110 French Term	FTERM T110 136 130 Y Y K	

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	O L ND RSPNDBVPIIIIN TL SSA I LV A E F E UE EURAUIARNNNNNU YE TTN N OA R X F N MC PBONPBLIVVVVM PN RPY V GL G I S G E EFMD IM I E T RP ALPTCLO OROTTE EE PFF F CF N FIELD NAME MNEMONIC TAG T N IL TDTONVAKNEFYHX XX II I HI A C E RCLTE LF PET TT OLL L GL M D YK EY ESR RR PEE E E E	
*** Database : BIBTHESF		
Thesaurus /VL	TH A170 4 130 Y Y Y Y KY 130 130 0	THES THES
T100 English Term	ETERM T100 136 130 Y Y K	
T110 French term	FTERM T110 4 130 Y Y K	

LISTDOT DATA DEFINITION														PAGE 1	
O	L	N	D	R	S	P	M	D	B	V	P	I	I	I	I
-F	E	U	E	U	R	A	U	I	A	R	N	H	N	H	H
F	H	M	C	P	B	O	N	P	B	L	I	V	V	V	V
S	G	E	E	F	H	D	I	M	I	I	I	I	I	I	I
E	T	R	P	A	L	P	T	C	L	D	O	F	F	F	F
FIELD NAME	MNEMONIC TAG	T	H	I	L	T	D	T	O	N	V	A	K	N	E
*** Database : ETOF															
1100 English Thesaurus Term	ETERM	T100	4	130							Y	K			ETOF
1110 French Term	FTERM	T110	136	130							Y	K			ETOF

LISTDOT DATA DEFINITION														PAGE 1	
O	L	N	D	R	S	P	M	D	B	V	P	I	I	I	I
-F	E	U	E	U	R	A	U	I	A	R	N	H	N	H	H
F	H	M	C	P	B	O	N	P	B	L	I	V	V	V	V
S	G	E	E	F	H	D	I	M	I	I	I	I	I	I	I
E	T	R	P	A	L	P	T	C	L	D	O	F	F	F	F
FIELD NAME	MNEMONIC TAG	T	H	I	L	T	D	T	O	N	V	A	K	N	E
*** Database : FTOE															
1100 English Term	ETERM	T100	136	130							Y	K			FTOE
1110 French term	FTERM	T110	4	130							Y	K			FTOE

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PAGE 1

FIELD NAME	MNEMONIC	TAG	T	H	N	D	R	S	P	M	B	V	U	TL	SSA	I	LV	A	E
	O	L	ND	RSPNDBVP11111M															
	F	E	UE	EURAU1ARNNNNNU	YE	TTN	N	DA	R	X									
	F	H	MC	PBONPBL1VVVVVNM	PN	RPY	V	GL	G	I									
	S	G	E	EFMD 1M															
	E	T	RPAALPTCLD	OROTTE	EE	PFF	F	CF	N										
	C	E	RCLTE	LFPET	XX	II	I	HI	A										
	D	Y	K	EY	ESR	TT	OLL	L	GL	M									
	Y	Y	RR	PEE	E	E	E	E	E										

\*\*\* Database : THESDS

TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM
MTE Main Term English (T100)	MTE	T100 -1	130	Y	Y	B	10	W	30	W	0								
MTF Main Term French (T110)	MTF	T110 -1	130	Y	Y	B	10	W	30	W	0								
FTE Forbidden Term English (T200)	FTE	T200 -1	130	Y	Y	B	1	100											
FTF Forbidden Term French (T210)	FTF	T210 -1	130																
BT Broader Term English (T320)	BT	T320 -1	130	Y	Y	Y	B	1	100										
NT Narrower Term English (T330)	NT	T330 -1	130	Y	Y	Y	B	1	100										
RT Related Term English (T340)	RT	T340 -1	130	Y	Y	Y	B	1	100										
UE Use Term English (T600)	UE	T600 -1	130	Y	Y	B	1	100											
UF Use Term French (T610)	UF	T610 -1	130	Y	Y	B	1	100											
TT Type of Term (T800)	TT	T800 -1	2	Y	Y	Y	B	1	2										
PN Printed Notes (T810)	PN	T810 -1	575	Y	Y														
NW Non-Printed Notes (T820)	NW	T820 -1	200	Y	Y														
SC Status Code (T830)	SC	T830 -1	2	Y	Y														
DE Date Entered (T840)	DE	T840 -1	10	Y	Y														
DM Date Modified (T850)	DM	T850 -1	10	Y	Y														
T860 Printed Notes - french PRF	PRF	T860 -1	575	Y	Y														
USEDFE USED FOR ENGLISH (T870)	USEDFE	T870 -1	130	Y	Y														
USEOFF USED FOR FRENCH (T880)	USEOFF	T880 -1	130	Y	Y														
w100 Thesaurus English Term	W100	W100	4	130	Y														
w110 Thesaurus French Term	W110	W110	136	130	Y														
x100 Thesaurus English Term	X100	X100	4	130	Y														
x110 Thesaurus French Term	X110	X110	136	130	Y														
z100 thesaurus english term	Z100	Z100	4	130	Y														
z110 Thesaurus French Term	Z110	Z110	136	130	Y														

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PAGE 1

FIELD NAME	MNEMONIC	TAG	T	H	N	D	R	S	P	M	B	V	U	TL	SSA	I	LV	A	E
	O	L	ND	RSPNDBVP11111M															
	F	E	UE	EURAU1ARNNNNNU	YE	TTN	N	DA	R	X									
	F	H	MC	PBONPBL1VVVVVNM	PN	RPY	V	GL	G	I									
	S	G	E	EFMD 1M															
	E	T	RPAALPTCLD	OROTTE	EE	PFF	F	CF	N										
	C	E	RCLTE	LFPET	XX	II	I	HI	A										
	O	Y	K	EY	ESR	TT	OLL	L	GL	M									
	Y	Y	RR	PEE	E	E	E	E	E										

\*\*\* Database : THESMAS

TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM	TERM
MTE Main Term English (T100)	MTE	T100 -1	130	Y	Y	B	10	W	30	W	0								
MTF Main Term French (T110)	MTF	T110 -1	130	Y	Y	B	10	W	30	W	0								
FTE Forbidden Term English (T200)	FTE	T200 -1	130	Y	Y	B	1	100											
FTF Forbidden Term French (T210)	FTF	T210 -1	130																
BT Broader Term English (T320)	BT	T320 -1	130	Y	Y	Y	B	1	100										
NT Narrower Term English (T330)	NT	T330 -1	130	Y	Y	Y	B	1	100										
RT Related Term English (T340)	RT	T340 -1	130	Y	Y	Y	B	1	100										
UE Use Term English (T600)	UE	T600 -1	130	Y	Y	B	1	100											
UF Use Term French (T610)	UF	T610 -1	130	Y	Y	B	1	100											
TT Type of Term (T800)	TT	T800 -1	2	Y	Y	Y	B	1	2										
PN Printed Notes (T810)	PN	T810 -1	575	Y	Y														
NW Non-Printed Notes (T820)	NW	T820 -1	200	Y	Y														
SC Status Code (T830)	SC	T830 -1	2	Y	Y														
DE Date Entered (T840)	DE	T840 -1	10	Y	Y														
DM Date Modified (T850)	DM	T850 -1	10	Y	Y														
T860 Printed Notes - french PRF	PRF	T860 -1	575	Y	Y														
USEDFE USED FOR ENGLISH (T870)	USEDFE	T870 -1	130	Y	Y														
USEOFF USED FOR FRENCH (T880)	USEOFF	T880 -1	130	Y	Y														
w100 Thesaurus English Term	W100	W100	4	130	Y														
w110 Thesaurus French Term	W110	W110	136	130	Y														
x100 Thesaurus English Term	X100	X100	4	130	Y														
x110 Thesaurus French Term	X110	X110	136	130	Y														
z100 thesaurus english term	Z100	Z100	4	130	Y														
z110 Thesaurus French Term	Z110	Z110	136	130	Y														

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	O L ND RSPNDBVPIIIIN TL SSA I LV A E F E UE EURAUIARNNNNNU YE TTM N OA R X F N MC PBONPBLIVVVVVM PN RPY V GL G I S G E EFHD IM I E T RP ALPTCLO OROTTTE EE PFF F CF N FIELD NAME MNEMONIC TAG T H IL TD TOHVAKNEFYHX XX II I HI A C E RCLTE LF PET TT OLL L GL H D Y K EY ESR RR PEE E E E	
*** Database : THBT		
z100 thesaurus english term	Z100 Z100 4 130	Y K
z110 Thesaurus French Term	Z110 Z110 136 130	THBT

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	O L ND RSPNDBVPIIIIN TL SSA I LV A E F E UE EURAUIARNNNNNU YE TTM N OA R X F N MC PBONPBLIVVVVVM PN RPY V GL G I S G E EFHD IM I E T RP ALPTCLO OROTTTE EE PFF F CF N FIELD NAME MNEMONIC TAG T H IL TD TOHVAKNEFYHX XX II I HI A C E RCLTE LF PET TT OLL L GL H D Y K EY ESR RR PEE E E E	
*** Database : TWNT		
x100 Thesaurus English Term	X100 X100 4 130	Y K
x110 Thesaurus French Term	X110 X110 136 130	THNT

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	O L ND RSPNDBVPIIIIN TL SSA I LV A E F E UE EURAUIARNNNNNU YE TTM N OA R X F N MC PBONPBLIVVVVVM PN RPY V GL G I S G E EFHD IM I E T RP ALPTCLO OROTTTE EE PFF F CF N FIELD NAME MNEMONIC TAG T H IL TD TOHVAKNEFYHX XX II I HI A C E RCLTE LF PET TT OLL L GL H D Y K EY ESR RR PEE E E E	
*** Database : THRT		
w100 Thesaurus English Term	W100 W100 4 130	Y K
w110 Thesaurus French Term	W110 W110 136 130	THRT

*Appendix II - Job Listings*

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```
1 1JOB THESAURF,MGR.PSBIB;OUTCLASS=LP,1
2 !COMMENT THIS JOB PRINTS THE THESAURUS IN FRENCH
3 !PURGE THESBT
4 !PURGE THESF
5 !PURGE THESBT
6 !PURGE THESNT
7 !PURGE THESRT
8 !PURGE THESFDD
9 !FILE OUTFL=THESBT;DEV=DISC;DISC=10000;NOCCTL
10 !PRINT
11 THESMAS
12 THBTPF.FORMATS
13 1800=s
14 END
15 !FCOPY FROM=THESBT;TO=THESNT;NEW
16 !FCOPY FROM=THESBT;TO=THESRT;NEW
17 IO
18 ERASE DB=THBT
19 ERASE DB=THRT
20 ERASE DB=THNT
21 EXIT
22 IE
23 T THESRT
24 C1/80 TO "IDB=THRT"IN 1
25 C1/80 TO "ICHANGE STARTER=*,ENDER=*,STRIP=YES"IN 2
26 CQ**Z*TO**W*IN ALL
27 K THESRT,UNN
28 Y
29 T THESBT
30 C1/80 TO "IDB=THBT"IN1
31 C1/80 TO "ICHANGE STARTER=*,ENDER=*,STRIP=YES"IN2
32 K THESBT,UNN
33 Y
34 T THESNT
35 C1/80 TO "IDB=THNT"IN1
36 C1/80 TO "ICHANGE STARTER=*,ENDER=*,STRIP=YES"IN2
37 CQ**Z*TO**X*INALL
38 K THESNT,UNN
39 Y
40 E
41 !RESET OUTFL
42 !FILE BATCH=THESBT;DEV=DISC
43 !RUN BATCHIN.UTILITY.MINISIG;LIB=P
44 THBT
45 EXIT
46 !FILE BATCH=THESNT;DEV=DISC
47 !RUN BATCHIN.UTILITY.MINISIG;LIB=P
48 THNT
49 EXIT
50 !FILE BATCH=THESRT;DEV=DISC
51 !RUN BATCHIN.UTILITY.MINISIG;LIB=P
52 THRT
53 EXIT
54 !PURGE THESNT
55 !PURGE THESRT
56 !INDEX
57 THESd$
```

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```

58 t800=s
59 OUTPUT=THESF
60 USE=THESKEYf
61 !purge thes1
62 !purge thes2
63 !purge thes3
64 !purge thesfold
65 !rename thesf,thesfold
66 !fcopy from=thesfold;to=thes1;new;subset="y020    ",135,exclude
67 !fcopy from=thes1;to=thes2;new;subset="y030    ",265,exclude
68 !fcopy from=thes2;to=thes3;new;subset="y040    ",395,exclude
69 !fcopy from=thes3;to=thesf;new;subset="y050    ",525,exclude
70 !RESET OUTFL
71 !purge thesfre
72 !FILE OUTFL=THESFRE;DEV=DISC;DISC=6000;SAVE;NOCCTL
73 !PRINT
74 THESMAS
75 THESFRE.FORMATS
76 HITFILE=THESF
77 END
78 !IF JCW < FATAL THEN
79 ! SET STDLIST=DELETE
80 !ENDIF
81 !EOJ

```

### THESKEYF

```

KEY=TERM,LENGTH=130,altchar=yes
FIELD=T110
ALTERNATIVE=T210
end
KEY=LUCK,LENGTH=130,ALTLABEL=YES,altchar=yes
FIELD=T610
alternative=T210,OCC=ALL,prefix="y020"
FIELD=Z110,OCC=ALL,prefix="y030"
FIELD=X110,OCC=ALL,prefix="y040"
FIELD=W110,OCC=ALL,prefix="y050"
field=t800,prefix="y060"
end

```

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```
1 !job thbil,mgr.psbib;outclass=lp,1
2 !comment ****
3 !comment First the files that are to be created by the procedure
4 !comment shall be purged; these files are:
5 !comment     thin - query file 2030
6 !comment     thindd - query file 2031
7 !comment     thbil2 - index output file 2020
8 !comment     thbil2dd - index output file 2021
9 !comment     thbil - index output file 2020
10 !comment    thbildd - index output file 2021
11 !comment ****
12 !file outfl;dev=lp,1
13 !purge thin
14 !purge thindd
15 !purge thbil
16 !purge thbildd
17 !purge thbil2
18 !purge thbil2dd
19 !comment ****
20 !comment The QUERY program will be used to find all records with a
21 !comment DATE ADDED or DATE MODIFIED field which is greater than
22 !comment the DATE provided in the QUERY formulation of this job.
23 !comment ****
24 !query
25 bib
26 = la BIL and de > 1991-04-24
27 save thin
28 exit
29 !comment ****
30 !comment Next INDEX shall be run to sort the retrieved records through
31 !comment a database called BIBTHESB; which by its name indicates that it
32 !comment joins the data base BIB with the database ETOF and to FTOE.
33 !comment The BIB field A170 is joined to the ETOF field T100 and T110
34 !comment is joined to the field A170 of BIB through the data base FTOE
35 !comment T100 is the English Term of the Thesaurus Term Record.
36 !comment T110 is the French Term of the Thesaurus Term Record.
37 !comment Using this data base, we are able to make a connection between
38 !comment the terms found in the record and the corresponding
39 !comment terms from the Thesaurus master data base record.
40 !comment Note that, in the event a record has been indexed with
41 !comment either French terms or English terms, then there will be a conn
42 !comment between A170 to Term T100 and also to Term T110 always.
43 !comment ****
44 !index
45 bibthesb
46 hitfile=thin
47 output=thbil
48 key=bilingual,length=130,showocc=yes,altchar=yes
49 field=t100
50 field=t110
51 end
52 ***
53 !comment ****
54 !comment The UPDATE program will be used to a) delete all existing A170
55 !comment Don't Panic! They have been safely stored away in the Index
56 !comment file and will not be lost. We have to delete them first
57 !comment to avoid duplication of terms; this way we also only run
```

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```
58 !comment one job and it doesn't matter what the original indexing
59 !comment language for A170 was.
60 !comment We then want to b) TRANSFER the Y010 tag to field A170.
61 !comment This will contain both French and English terms on the record
62 !comment A predefined batch job called thmod2 was created to do the
63 !comment work outlined in step a)
64 !comment A second predefined batch job called thmod3 was created to do the
65 !comment work in step b).
66 !comment ****
67 !update
68 thmod2
69 !update
70 thmod3
71 !comment ****
72 !eoj
```

```
THMOD2
G.00.02
BIB      ±THBIL
        "
D ALL A170
D ALL A170
D ALL A170
D A170
EXIT
```

```
THMOD3
G.00.02
BIB      ±THBIL
T Y010 TO A170
EXIT
```

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```
1 !job thtoe,mgr=psbib;outclass=lp,1
2 !comment ****
3 !comment First the files that are to be created by the procedure
4 !comment shall be purged; these files are:
5 !comment thin - query file 2030
6 !comment thindd - query file 2031
7 !comment thtrf - index output file 2020
8 !comment thtrfdd - index output file 2021
9 !comment thtrf1 - copy of index output file thtrf 2020
10 !comment ****
11 !purge thin
12 !purge thindd
13 !purge thtrf
14 !purge thtrfdd
15 !purge thtrf1
16 !file outfl;dev=lp,1
17 !comment ****
18 !comment The QUERY program will be used to find all records with a
19 !comment DATE ADDED or DATE MODIFIED field which is greater than
20 !comment the DATE provided in the QUERY formulation of this job.
21 !comment ****
22 !query
23 bib
24 = la ENG and de > 1991-04-24 and not la BIL
25 save thin
26 exit
27 !comment ****
28 !comment Next INDEX shall be run to sort the retrieved records through
29 !comment a database called BIBTHESF; which by its name indicates that it
30 !comment joins the data base BIB with the database THESMAS.
31 !comment The BIB field A170 is joined to the THESMAS field T110.
32 !comment T110 is the French Term of the Thesaurus Term Record.
33 !comment Using this data base, we are able to make a connection between
34 !comment the french terms found in the record and the corresponding
35 !comment english terms from the Thesaurus master data base record.
36 !comment Note that, in the event an english record has been indexed with
37 !comment English terms, then there will be no connection made from English
38 !comment Term A170 to French Term T110. Therefore running this job when
39 !comment the data is in the form you want will have no effect.
40 !comment ****
41 !index
42 bibthesf
43 hitfile=thin
44 output=thtrf
45 key=english,length=130,showocc=yes,altchar=yes
46 field=t100
47 end
48 ***
49 !comment ****
50 !comment The index output file thtrf is renamed to thtrf1. The reason
51 !comment for this is that we wish to create another copy of the file
52 !comment with the occurrence numbers of the output sorted in descending
53 !comment order.
54 !comment ****
55 !rename thtrf,thtrf1
56 !comment ****
57 !comment The HP sort program is used to sort the output file thtrf1
```

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```

58 !comment and place the resulting sorted file into the file named thtrf
59 !comment we shall sort on the tag Y020 which is found in position 134 of
60 !comment the output file. IF THE LENGTH OF THE THESAURUS FIELD
61 !comment IS CHANGED IN THE FUTURE, THEN THIS NUMBER 134 WILL ALSO
62 !comment BE AFFECTED!!! Basically, take the length of the field and
63 !comment add 4; therefore now, length=130 plus 4 therefore use 134.
64 !comment We have assured that the occurrence from which the field was
65 !comment extracted will be recorded in the output file by using the INDEX
66 !comment option SHOWOCC=YES.
67 !comment ****
68 !run sort.pub.sys
69 input thtrf1
70 output thtrf
71 key 134,4,desc
72 e
73 !comment ****
74 !comment The UPDATE program will be used to a) TRANSFER the Y010 tag
75 !comment to the field A170. These are the English term equivalents to
76 !comment the French terms on the record.
77 !comment and b) DELETE the French terms based upon the occurrence
78 !comment number found in the Y020 tag.
79 !comment A predefined batch job called thmod4 was created to do this.
80 !comment ****
81 !update
82 thmod4
83 !comment ****
84 !ej

```

```

THMOD4
G.00.02
B18      ZTHTRF
T Y010 TO A170

```

```

D A170
OCC=Y020
EXIT

```

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```
1 !job thetof,mgr.psbib;outclass=lp,1
2 !comment ****
3 !comment First the files that are to be created by the procedure
4 !comment shall be purged; these files are:
5 !comment thin - query file 2030
6 !comment thindd - query file 2031
7 !comment thtre - index output file 2020
8 !comment thtredd - index output file 2021
9 !comment thtre1 - copy of index output file thtre 2020
10 !comment ****
11 !file outfl;dev=lp,1
12 !purge thin
13 !purge thindd
14 !purge thtre
15 !purge thtredd
16 !purge thtre1
17 !comment ****
18 !comment The QUERY program will be used to find all records with a
19 !comment DATE ADDED or DATE MODIFIED field which is greater than
20 !comment the DATE provided in the QUERY formulation of this job.
21 !comment ****
22 !query
23 bib
24 = la FRE and de > 1991-04-24 and not la BIL
25 save thin
26 exit
27 !comment ****
28 !comment Next INDEX shall be run to sort the retrieved records through
29 !comment a database called BIBTHES; which by its name indicates that
30 !comment it joins the data base BIB with the database THESMAS.
31 !comment The BIB field A170 is joined to the THESMAS field T100.
32 !comment T100 is the English Term of the Thesaurus Term Record.
33 !comment Using this data base, we are able to make connection between
34 !comment the english terms found in the record and the corresponding
35 !comment french terms from the Thesaurus master data base record.
36 !comment Note that, in the event a french record has been indexed with
37 !comment French terms, then there will be no connection made from English
38 !comment Term A170 to English Term T100. Therefore running this job when
39 !comment the data is in the form you want will have no effect.
40 !comment ****
41 !index
42 bibthes
43 hitfile=thin
44 output=thtre
45 datafield=french,length=130,showocc=yes,altnchar=yes
46 field=t110
47 end
48 ***
49 !comment ****
50 !comment The index output file thtre is renamed to thtre1. The reason
51 !comment for this is that we wish to create another copy of the file
52 !comment with occurrence numbers of the output sorted in descending
53 !comment order.
54 !comment ****
55 !rename thtre,thtre1
56 !comment ****
57 !comment The HP sort program is used to sort the output file thtre1
```

PAGE 2 HEWLETT-PACKARD 32201A.07.17 EDIT/3000THU, APR 18, 1991, 10:46 AM (C) HEWLETT-PACKARD CO. 1985

```

58 !comment and place the resulting sorted file into the file named thre
59 !comment we shall sort on the tag Y020 which is found in position 134
60 !comment of the output file. IF THE LENGTH OF THE THESAURUS FIELD
61 !comment IS CHANGED IN THE FUTURE, THEN THIS NUMBER 134 WILL ALSO
62 !comment BE AFFECTED!!! Basically, take the length of the field and
63 !comment add 4; therefore now, length=130 plus 4 therefore use 134.
64 !comment We have assured that the occurrence from which the field was
65 !comment extracted will be recorded in the output file by using the INDEX
66 !comment option SHOWCC=YES.
67 !comment ****
68 !run sort.pub.sys
69 !input thre1
70 !output thre
71 !key 134,4,desc
72 !e
73 !comment ****
74 !comment The UPDATE program will be used to a) TRANSFER the Y010 tag
75 !comment to the field A170. These are the French term equivalents
76 !comment to the English terms on the record.
77 !comment and b) DELETE the English terms based upon the occurrence
78 !comment number found in the Y020 tag.
79 !comment A predefined batch job called thmod1 was created to do this
80 !comment ****
81 !update
82 thmod1
83 !comment ****
84 !eof

```

#### THMOD1

G.00.02

B18        STHTRF

T Y010 TO A170

D A170  
occ=y020  
EXIT

*Appendix III - Print Formats*

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## LISTFORMAT - PRINT FORMAT SPECIFICATION

PAGE : 1

\*\* PRINT-FORMAT FILE NAME \*\* TH8TPF.FORMATS

Column formatting	NO
Printing mode	1
Lines per page	200
Characters per line	132
Default spacing	1
Spacing between record	1
Max. records per page	32767
Left margin	1
Max. no. of lines per record	0
Split record between pages	NO
Print after test record	NO
Starting page number	1
Number of heading lines	1

&lt;-----|-----2-----3-----4-----5-----6-----7-----8-----9-----0-----1-----2-----3&gt;

Heading lines :

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## LISTFORMAT - PRINT FORMAT SPECIFICATION

PAGE : 2

## ABSOLUTE LINE / COL.

ENTRY      CHECKED      PRINT COND. EQU RGHt STR END INDENTATION MAX. SPACES      LINES      SORT      PRINT PAGE ALT. FUNCT DISPL.  
 NO. FIELD ID. FND E-SUP BY GRP DSPLY SUP JUST COL COL FIRST NEXT CHAR TO RGHt BEF. AFT. FLD ASC. AT TOF EJCT FLD. CODE

&lt;----- LITERAL 1 -----&gt;    TYPE LEN CON REP SUP    &lt;----- LITERAL 2 -----&gt;    TYPE LEN CON REP SUP

1	LITL	T100	YES	NO	NO	-1	0	0	0	1	1	1	1	7		
	!REC-ID															
2	T100	"2100"	NO	YES	NO	NO	-1	0	0	0	32767	1	1	1	NO	NO
						PRE 6 YES NO NO										
3	T110	"2110"	NO	YES	NO	NO	-1	0	0	0	32767	1	1	1	NO	NO
						PRE 6 YES NO NO										

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LISTFORMAT - PRINT FORMAT SPECIFICATION

PAGE : 1

\*\* PRINT-FORMAT FILE NAME \*\* THÈSRE.FORMATS

Column formatting	NO
Printing mode	1
Lines per page	66
Characters per line	132
Default spacing	1
Spacing between record	0
Max. records per page	32767
Left margin	1
Max. no. of lines per record	0
Split record between pages	NO
Print after last record	NO
Starting page number	1

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## LISTFORMAT - PRINT FORMAT SPECIFICATION

PAGE : 2

ABSOLUTE LINE / COL.  
 ENTRY CHECKED PRINT COND. EQU RGHt STR END INDENTATION MAX. SPACES LINES SORT PRINT PAGE ALT. FUNCT DISPL.  
 NO. FIELD ID. FND E-SUP BY GRP DPLY SUP JUST COL COL FIRST NEXT CHAR TO RGHt BEF. AFT. FLD ASC. AT TOF EJCT FLD. CODE

	LITERAL 1	TYPE	LEN	CON	REP	SUP	LITERAL 2	TYPE	LEN	CON	REP	SUP	
1	Y010 *1	NO	YES	YES	NO	-1	0	0	0	32767	0	2	0
		PRE	2	YES	NO	NO	*2						NO
2	T100 *3	NO	YES	YES	NO	-1	0	0	0	32767	0	1	0
		PRE	2	YES	NO	NO	*4						NO
3	T610 Y010 YES YES *5/Voir/*6	NO	YES	NO	NO	-1	0	0	11	32767	0	1	0
		PRE	10	YES	NO	NO							NO
4	TEST T880 PRESENT	NO											
5	LITL T880 YES YES *7E0*8	NO				-1	0	0	0	0	1	0	6
6	T880 Y010 YES YES *9	NO	YES	NO	NO	-1	0	0	0	32767	132	0	0
		PRE	2	YES	YES	NO							NO
7	TEST T860 PRESENT	NO											
8	LITL T860 YES YES *10NC*11	NO				-1	0	0	0	0	1	0	8
9	T860 Y010 YES YES *12	NO	YES	NO	NO	-1	0	0	0	32767	132	0	0
		PRE	3	YES	YES	NO	*13						NO
10	TEST Y030 PRESENT	NO											
11	LITL Y010 YES YES *13TG*14	NO				-1	0	0	0	0	1	0	8
12	Y030 *9	NO	YES	NO	NO	-1	0	0	0	32767	0	0	0
		PRE	2	YES	YES	NO							NO
13	TEST Y040 PRESENT	NO											
14	LITL ISN YES YES *14TS*15	NO				-1	0	0	0	0	1	0	8
15	Y040 *9	NO	YES	NO	NO	-1	0	0	0	32767	0	0	0
		PRE	2	YES	YES	NO							NO
16	TEST Y050 PRESENT	NO											

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LISTFORMAT - PRINT FORMAT SPECIFICATION

PAGE : 3

ABSOLUTE LINE / COL.

ENTRY      CHECKED      PRINT COND. EQU RGHt STR END INDENTION MAX. SPACES      LINES      SORT      PRINT PAGE ALT. FUNCT DISPL.  
NO. FIELD ID. FND E-SUP BY GRP DSPLY SUP JUST COL COL FIRST NEXT CHAR TO RGHt BEF. AFT. FLD ASC. AT TOF EJCT FLD. CODE

<----- LITERAL 1 ----->      TYPE LEN CON REP SUP      <----- LITERAL 2 ----->      TYPE LEN CON REP SUP

---

17 LITL T100 YES YES NO      -1 0 0 0 0 1 0  
\*16TA\*17

8

18 VOSO      NO YES NO NO -1 0 0 0 32767 0 0 0 NO NO 4  
\*9 PRE 2 YES YES NO