Appendix A

SPACE REQUIREMENTS

A.1   INTRODUCTION

The approximate amounts of memory space required for the different data
management packages and versions are listed in this appendix.

All values are given in bytes, or in K bytes if stated.

By "users" of a file is meant the number of tasks that access the file
simultaneously.

To the space required for each package must be added the space required
by File Management (see A.4), which is the interface between the data
management package and the disk driver. This is also configuration
dependent.

A.2   EXTENDED DATA MANAGEMENT

A.2.1   Size of Object Code

- Version 1, Complete EDM package, memory resident

                                          45 K bytes

- Version 2: Complete EDM package, disk resident
     Memory resident part   5 K
     Additional segment frame per EDM task   1 K

- EDM subversion 3   39 K

A.2.2   Size of Data Areas

Per task	80+4x no of file code
	(bytes)
Per opened S-file	160
+ one record buffer	record length
+ one block buffer	block length
+ per user	20
Per opened E-file	570
+ record buffer	record length
+ block buffer	block length
+ per user	90
Index buffer pool	520 x max number of users
Protection table	(17 + max no of users
	x 6) x 18

An average of 6 protected records per user and an overflow area for 17 records. Each protection entry consists of 18 bytes.

Work areas for transaction logging	700 bytes
Work areas for function logging	700
Fixed work fields	100
Additional if segmentation is used	550
Per EDM task	590

The number of EDM tasks is 2 x number of disk drivers in the system. Minimum 2 EDM tasks.

The total size in memory must not exceed 64 K bytes.

A.3   STANDARD DATA MANAGEMENT

A.3.1   Size of Object Code

Only non-indexed S-files	4 K bytes
Additional for indexed S-files	3 K
Additional when Create, Delete, Extend files option included	0.75 K bytes

A.3.2   Size of Data Areas

Per file code	4 bytes
Per file	100
Per protected record	6
Currency buffer per user	8
Additional per indexed file	4
Per block buffer	block size + 10
Per DM task table	100
Master index pool	user defined

A.4   ABRIDGED DATA MANAGEMENT

A.4.1   Size of Object Code

Object code   500 bytes

Additional when Create, Delete, Extend
files option included   1200 bytes

A.4.2   Size of Data Area

Per file code   4 bytes
Per file   ca. 80 bytes
Per ADM task   ca. 100 bytes

A.5   FILE MANAGEMENT

A.5.1   Size of Object Code

I/O requests only   2 K bytes
Additional for Create, Delete, Extend   2 K

A.5.2   Size of Data Areas

Per disk file code   1 byte
Per file   50
Per additional file extent   12