June 7, 1983

5740-XYR
DB2 Version 1.1

Software announcement letter 283-159
DATE   830607
TYPE   Programming
TITLE   OVERVIEW: RELATIONAL DATA BASE MANAGEMENT SYSTEM, END-USER QUERY,
AND DATA EXTRACT
LICENSED PROGRAMS OVERVIEW: RELATIONAL DATA BASE MANAGEMENT
SYSTEM, END-USER QUERY, AND DATA EXTRACT LICENSED PROGRAMS

IBM is introducing three new licensed programs for data base and end-user environments. The combination of these three products offers new opportunities to extend the facilities of data base and query to an entire new set of users.

- IBM Database 2 (DB2) (5740-XYR) is a relational data base management system for the MVS/XA and MVS/370 environments. DB2 is designed to utilize the XA architecture, including 31-bit virtual addressing and large real storage. DB2 offers relational data base capabilities that are easily learned and used by data processing professionals. Data definition, retrieval, manipulation, and control operations are supported by the Structured Query Language (SQL). DB2 may be accessed concurrently by the IMS/VS Data Communication Feature, by CICS/OS/VS, by TSO users, and by batch jobs. Users who plan to install DB2 on 308X class processors in 370 mode should consult the virtual storage considerations section of the DB2 announcement for planning information.

- Query Management Facility (QMF) (5668-972) provides interactive easy-to-use query, update, report definition, and report-writing capabilities for the business professional. Query and update are available through both Structured Query Language (SQL) and Query-By-Example (QBE) interfaces. QMF operates with DB2 data in the MVS/XA and MVS/370 environments and with SQL/DS Release 2 data in the VM/SP environment. In an MVS/XA environment, most QMF modules that would typically be resident in pageable link pack area (PLPA) to support a multi-user environment may optionally reside in extended pageable link pack area (EPLPA).

- Data Extract (DXT) (5668-973) provides a method of selectively extracting data from existing IMS/VS data bases and from sequential access method (SAM) and virtual storage access method (VSAM) files. DXT operates in both MVS/XA and MVS/370 environments. Extracted data may then be loaded into DB2 or SQL/DS Release 2 tables.

DB2, QMF, and DXT are currently being tested in a number of customer and IBM locations. Early experience with a limited number of users will assist IBM in evaluating these products in varied environments and in developing additional support material prior to general availability. An early support program (ESP) is being planned for DB2, QMF, and DXT. This ESP will be conducted by the NAD Dallas Systems Center.

Relationship to current IBM DB/DC and information center products: Today, IBM is announcing significant new DB/DC and information center products. A key component of that announcement is IBM Database 2, a major new data base product for the MVS environment. With this addition, MVS users may utilize both IMS/VS Data Base and DB2 to satisfy their data base needs. DB2 offers a powerful new data base management system for use where business and applications requirements and data structures are subject to frequent changes. Its ease-of-use characteristics make it applicable to those applications in which rapid implementation is the primary requirement. As such, DB2 may be used to address decision support systems as well as traditional application areas. DB2 also offers end users direct control of the creation, maintenance, and manipulation of their data bases.

As evidenced by the announcement of significant enhancements in IMS/VS Version 1 Release 3, IMS/VS and its features continue as key IBM offerings in support of a wide variety of data base applications. It is IBM's intent to continue to support and enhance both IMS/VS and DB2 in order to meet customer needs. In

addition, a prime objective of IBM's DB/DC products is the integration of application development tools with the data base products. To support this objective, it is IBM's intent that subsequent IMS Application Development Facility II (IMSADF II) announcements will reflect relational data base support.

Query Management Facility (QMF) offers business professionals a query and reporting capability for use where decision support or ad-hoc requirements are of primary importance. As such, it complements DB2 and SQL/DS in the MVS and VM environments, respectively. Data Extract (DXT) provides a facility for extracting data from existing data bases or files for subsequent loading into DB2 tables or SQL/DS tables.

DB2, QMF, and DXT offer powerful new functions to augment the set of tools available to information and development center users. In addition, it is IBM's intent to provide APL and BASIC licensed programs that will permit applications written in those languages to access and manipulate DB2 data.

Today's announcements illustrate the complementary nature of several IBM products. For example, DB2 may be accessed concurrently by IMS/VS, CICS/OS/VS, and TSO users, and DXT can use data descriptions resident in the OS/VS DB/DC Data Dictionary.

In summary, the set of products announced today expands and complements IBM DB/DC and information center offerings to provide new levels of technical capability and enhanced productivity. DB2 provides a new data base technology aimed at improving design, programming, and timely end-user access to data. QMF and DXT further extend access to data to end-users, satisfying their growing need for information. Recent improvements to IMS/VS and CICS/OS/VS strengthen IBM's support of these two products as strategic DB/DC systems.

Planned general availability:
- DB2 - third quarter 1984
- DXT - second quarter 1984
- QMF - second quarter 1984 for SQL/DS Release 2 (VM/SP) and third quarter 1984 for MVS/XA and MVS/370

Pricing information is contained in the individual program announcements.

Additional technical information on each licensed program is included in the following programming announcements, which are dated June 7, 1983:
IBM Database 2 (DB2) Query Management Facility (QMF) Data Extract (DXT)

The following manuals are available today:
- GC26-4073 IBM Database 2 General Information Manual
- GC26-4082 IBM Database 2 Introduction to SQL
- GC26-4071 Query Management Facility General Information Manual
- GC26-4070 Data Extract Information Manual

Further product information will be made available through normal IBM marketing channels.