IBM

DACS Centers

Providing assistance for
your data acquisition
and control system
applications

Data acquisition and control systems call for a special brand of expertise.

You have to be knowledgeable in the application and its associated instrumentation. You have to know computers and programming systems as well.

To provide that foundation, IBM has established Data Acquisition and Control System (DACS) Centers in key locations across the country.

The centers teach and demonstrate the specific skills DACS users need to make their systems most productive. Under conditions similar to those in the application environment itself, users learn to prepare for the system before installation.

They learn to program—to test—to debug.

They can simulate their own firm's programs from beginning to end. And they may have the assistance of DACS Center staff members experienced in various application areas.

Manned by specialists in control, system design and programming, each center has its own IBM 1800 Data Acquisition and Control System with process signal simulation and instrumentation equipment. In addition, the centers also provide assistance for those using the IBM System/360 Model 44 in data acquisition applications.

Personalized instruction provides in-depth knowledge of data acquisition and control systems and methods. Specialized course material covers:

- IBM 1800 Data Acquisition and Control System.
- IBM 1800 Multiprogramming Executive Operating System (MPX).
- IBM 1800 Time-Sharing Executive System (TSX).

Students gain in-depth knowledge of the over-all system, so they can effectively apply their knowledge to the efficient operation of their own companies' DACS systems.
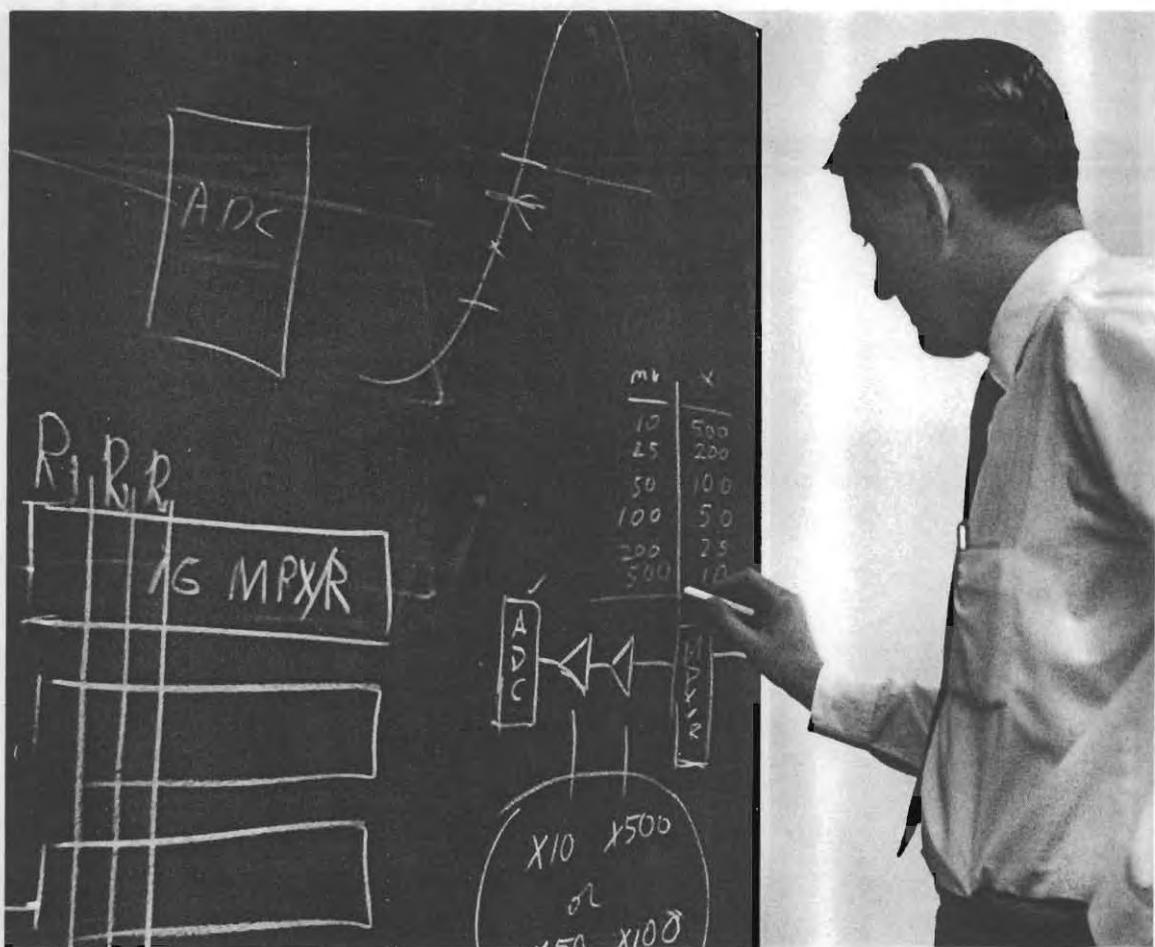
The complexities of system design call for application insight and extensive knowledge of the operating capabilities of the 1800. These abilities are supplied by the systems engineers assigned to each DACS Center. With their help, a system can be developed to meet your individual application. DACS specialists help you define the over-all objectives of your proposed system. They draw on their own knowledge and experience and that of the center's technical spe- cialists to achieve those objectives through consideration of technical feasibility, programming approaches, interface require- ments, instrumentation needs, environ- mental requirements, and computing and data storage requirements.

0000	0000	0000	000.C	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	-0000	0000	0000
0000	0000	0000	1049	0141	0000	0141	01E9	0000	0021	0000	0000	0011	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	4C00	000F	4480	6492
000B	0008	0006	0000	0000	0000	0000	0000	4480	000B	0000	0024	0008	2492
0000	0001	FFFF	0140	8000	002A	001D	2492	4920	B249	4000	0081	0000	0000
15F0	15F1	4040	0000	4480	000B	0009	0001	0000	0000	6C96	4000	0000	0024
4C00	000D	0455	74E3	0042	0000	F3D2	6700	F52F	6F80	00A9	C0F6	9060	4C18
F51B	080E	1801	4C04	F3E1	A800	40E4	7059	0000	1402	FF84	1500	FF84	1600
0000	1700	0000	1701	0061	0061	F643	01D2	001E	F3AF	4400	0DAD	0DAD	00FE
00FA	C0FA	70F7	F39B	D022	1886	1807	1883	C01E	6918	610A	E01C	1140	1001
2015	4400	FB0A	C011	700C	6911	C010	1084	D002	1091	6500	0000	C500	F446
1808	6500	FFD3	4C80	F403	007D	00E2	0000	1FC0	0000	C01A	D006	6780	FF83
4400.	F4C6	E810	D700	FF83	C00E	D0FB	73FF	70F5	4098	40BE	2000	FF83	F38F
70FD	4C80	F429	0008	7000	E810	40F9	F838	F0E9	E828	60D9	D818	D0A9	A868
2089	8848	6A99	9858	70B9	B878	F737	7F3F	E727	6F2F	D717	5F1F	A767	AFEF
3747	8FCF	9757	9FDF	B777	BFFF	F636	7E3E	F626	6E2E	D616	5E1E	A666	AEEE
3646	8ECE	9656	9EDE	B676	BEFE	F535	703D	F525	6D2D	D515	5D1D	A565	ADED
3545	8DCD	9555	9DDD	B575	BDFD	F4C4	7C3C	E424	6C2C	D414	5C1C	A464	ACEC
3444	8CCC	9454	9CDC	B474	BCFC	F333	783B	E323	6B2B	D313	5B1B	A363	ABEB
3343	8BCB	9353	9BDB	B373	BBFB	F232	7A3A	E222	E02A	D212	5A1A	A262	AAEA
3242	8ACA	9252	9ADA	B272	BAFA	F131	7939	6121	6929	D111	5919	A1E1	A020
3141	8000	9151	9010	B171	B030	0000	6A16	00C3	017F	FFFF	FFFF	FFFF	FFFF
FFFF	FFFF	FFFF	FFFF	FFFF	FFE0	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1203
0097	0810	0020	03CF	02EE	0003	03CF	02A3	0003	03B6	02A3	0003	03B6	02BC
02BC	0003	0352	02A3	0003	0339	02A3	0003	0339	02EE	0003	0352	02EE	0003
0003	0386	02DE	0003	02B6	02EE	0003	02DE	02EE	0003				

How should a flexible Operating System be organized for *your* application?

How can it best take advantage of the capability of the 1800 System?

Specialized consultation is available in each DACS center for IBM's proven 1800 Operating Systems:

- MPX—Multiprogramming Executive Operating System
- TSX—Time-Sharing Executive System

Recognizing that most 1800 applications are
completely different from one another,
the DACS Center makes equipment available
so that you can test your own application.

You can configurate the DACS Center 1800
to look just like your own. You have plug-
board dollies to interface and check out your
special instrumentation. You can simulate
real-time events, and make use of the process
signal simulator and special instrumentation.

Skilled programmers can provide assist-
ance for you during pre-installation pro-
gramming testing.
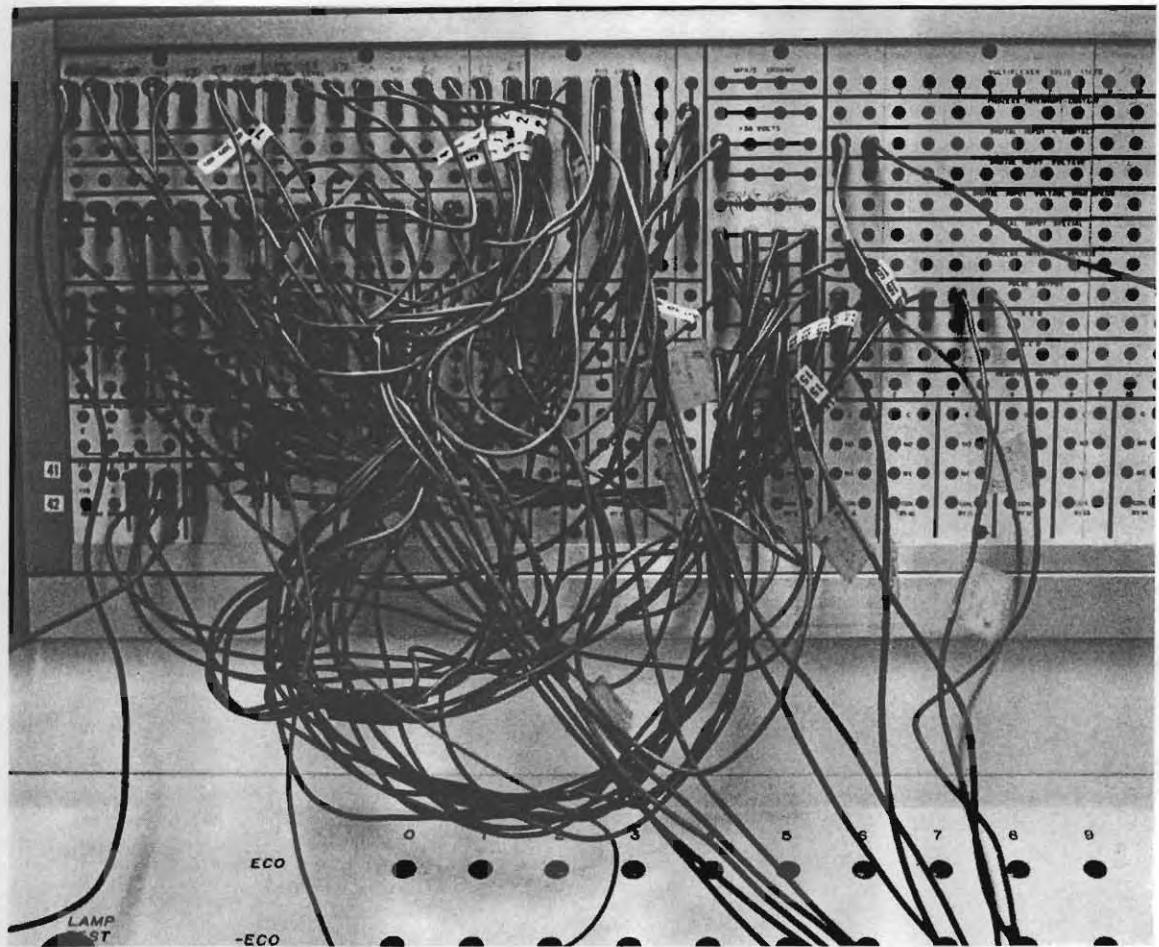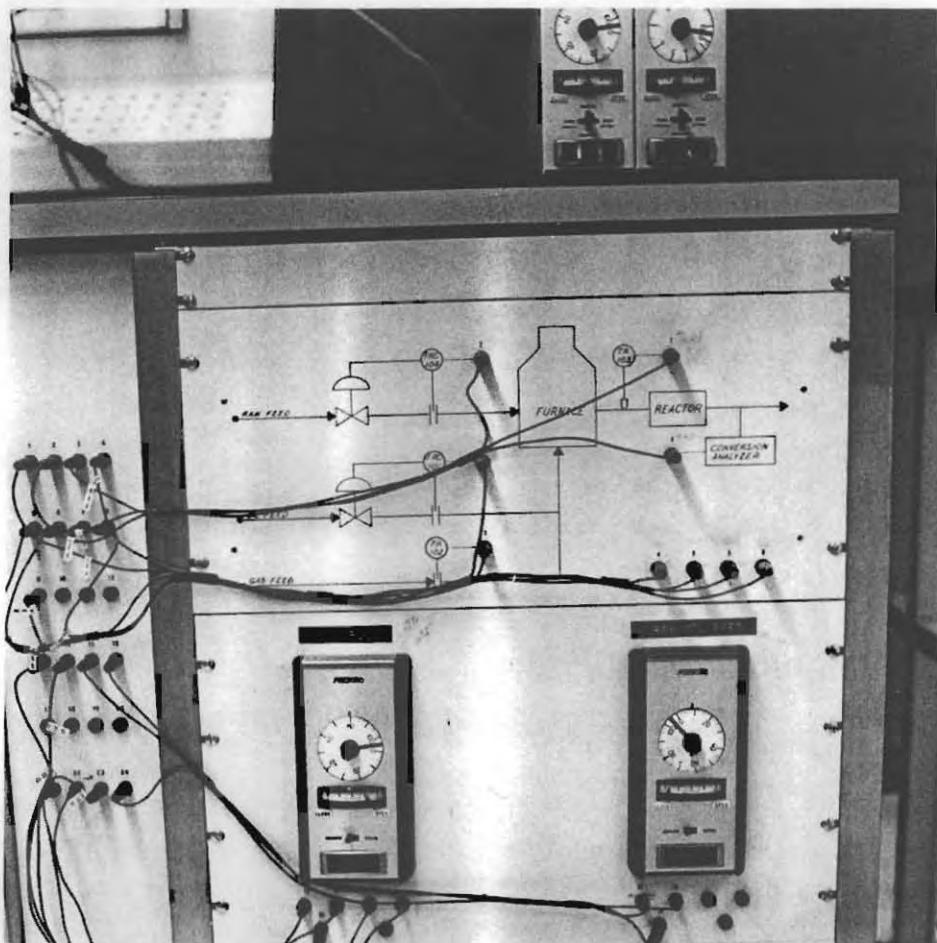
To show the power of IBM DACS-oriented
programs, demonstrations can be set up for
MPX and TSX, as well as application pro-
grams such as PROSPRO, a process control
language.

To determine system feasibility, you can
also arrange for demonstrations of your own
special equipment in operation with the
1800.
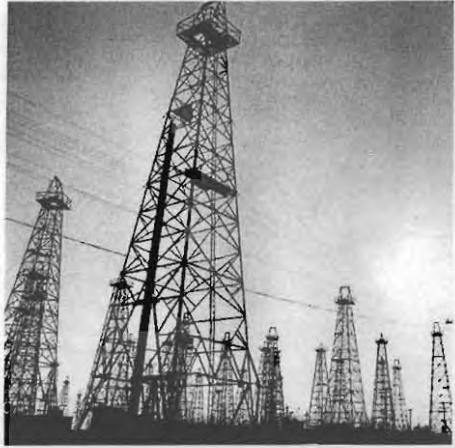
The DACS Center can help define solutions for your application problems. You profit from the professional personnel staffing the center. They have experience in such application areas as process control, plant automation systems, telemetry data analysis, patient monitoring, biomedical data acquisition, dynamometer testing, chromatograph monitoring, water plant control, gas pipeline surveillance, laboratory automation, power generation, traffic control.

1 *Process control*
2 *Medical data acquisition*
3 *Oil field control*
4 *Manufacturing test*
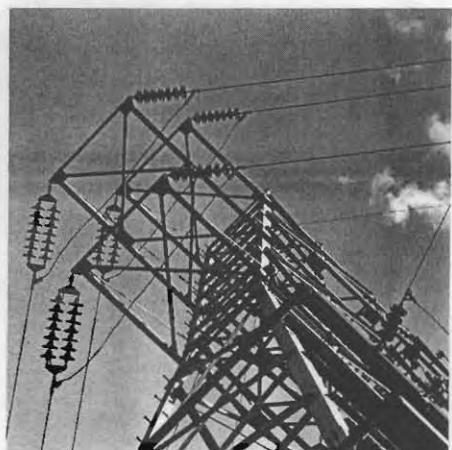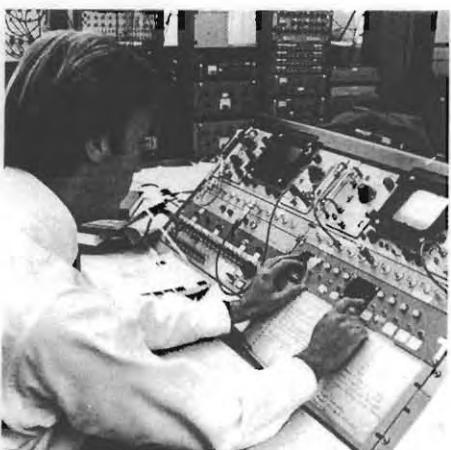
1 *Power dispatch and control*
2 *Nuclear data acquisition*
3 *Traffic control*
4 *Automotive manufacturing*
5 *Lab automation—mass spectrometer*
6 *Lab automation—tensile test*

Consult your IBM representative for further
information about IBM DACS Centers. He
can tell you how to obtain the specialized
assistance that they have to offer. Let IBM
DACS Centers contribute to the efficient
operation of your organization's data acqui-
sition and control systems.