MANAGING QUALITATIVE INFORMATION AND QUANTITATIVE DATA ON POLITICAL PARTIES

Kenneth Janda Northwestern University

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ABSTRACT

Most social scientists are familiar with the use of computers for the storage and analysis of large files of quantitative data. However, many scholars know much less about computer and non-computer technology as applied to the management of qualitative information, defined herein as natural language text. This is unfortunate, for modern information technology offers social scientists unprécedented analytical advantages. This paper illustrates the capabilities of computer and microfilm technology as applied in one field of political science: the study of political parties.

One such study, the International Comparative Political Parties Project, employed a variety of information processing techniques in its analysis of 158 parties in 53 countries. (See Kenneth Janda, Comparative Political Parties: a Cross-National Survey. New York: The Free Press, in press.) This paper discusses two of the ICPP Project's techniques for managing qualitative information and one technique for storing and analyzing quantitative data.

Qualitative information from the study's source material—thousands of documents pertaining to party, politics in all the countries—was managed with Eastman Kodak's MIRACODE system, which allowed for rapid retrieval of relevant text from some 70,000 pages of microfilmed material. The quantitative data on party, characteristics produced through research using the MIRACODE system were analyzed with the widely-used package of computer programs, SPSS (Statistical Package for the Social Sciences). Verbal discussions of the quantitative scores assigned to the parties were managed with a program called RIQS, (Remote Information Query System), which also generated most of the text for Comparative Political Parties.

Although described only as used in the study of political parties, the techniques have straightforward applications to other fields of political science and should stimulate more ambitious research through improved information management.

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Association.

The power of computers to analyze great quantities of numerical or coded data is well known among social scientists. Moreover, computer analysis of social and political data has been practiced by political scientists in many countries across the world. /1/ But there are aspects of computer information processing that are not common in political research, and mainy political scientists are not familiar non-computer, technologies for information with aiternative. processing. These gaps in knowledge and utilization are unfortunate, because scholars whose research interests do not Invite quantification may be depriving themselves of analytical capabilities offered by modern information technology. It is just not true that information computers and information systems serve only the God of , Numbers. They provide unprecedented assistance in many avenues of systematic research which need not be quantitatively oriented.

This paper does not purport to review the range of computer and non-computer technologies available for information processing. Such general reviews of the state-of-the-art are available elsewhere. (See Williams, 1978; Moneta, 1978; and Ghosh and Liu, 1978.) Its objective instead is to illustrate the application of available technologies in a long-range, on-going research project dealing with the comparative study of political parties. The study involved a variety of information processing techniques (see Janda, 1968a, 1969). This paper will discuss only three techniques, two for handling qualitative information and one for processing quantitative data. The three together constitute an information system in operation.

International Comparative Political Parties Project

The study in point is the International Comparative Political Parties Project, which aimed at conducting the first systematic, comprehensive, empirically-based study of political parties across the world. The study covered 158 parties of widely different types operating in 53 countries during 1950-1962. This period was divided into two parts, 1950-56 and 1957-62, and the parties were studied separately within each. Coverage of the ICPP Project by area, country, and time period is reported in Table 1.

Table 1

The ICPP Project was begun in 1967. Its major report of data and findings is in process of publication (Janda, in press), and the data are available for distribution through the Inter-University Consortium for Political and Social Research (Janda, 1979b). The long delay between launching and landing the study was due in part to inadequate funding but mainly to its broad scope, covering at least five countries in each of ten cultural-geographical areas of the world. The scope of the project insured from the very beginning that the study would extend for several years and involve scores of student assistants investing thousands of hours in research. This multi-year commitment raised problems in managing the information between the time it was used, and information management was an integral part of the project's research design.

The study sought information about political parties from library materials such as books, articles, newspapers, and party documents. Material relevant to party politics in each country was identified through lengthy bibliographic searches and correspondence with party scholars in the U.S. and abroad, (Janda, 1968a, Chapter 5) 3,500 documents of various types, were selected for the sources. Information about the activities and characteristics of particular parties had to be mined from this bulky literature, sorted and stored for later use, and retrieved to fulfill researchers' requests when the information base was completed. (Janda, 1968b) These needs three aspect of the information management problem which attract our aftention. The first is the indexing, storage, and retrieval of the information extracted from the source material. The second is the recording and preservation of researchers' judgments and decisions about party characteristics. The third is the storage and analysis of the party charactéristics. Each of these will be treated in turn below.

Storing Information on Microfilm for Rapid Retrieval

The problem of storing the information for rapid retrieval in research was handled through the use of microfilm technology, specifically Eastman Kodak's MIRACODE system. (See Janda, 1967) MIRACODE is an acronym for "Microfilm Information Retrieval Access CODE." The system invited use because of its advantages over computer technology in certain respects. Use of microfilm as a storage medium accommodates large amounts of textual material in original form without endless keystroking. Like computers, however, the system allowed direct man-machine interaction with browsing capabilities and featured powerful searching capabilities, emptoying Boolean logic on machine-readable optical codes.

The basic components of the MIRACODE system are a special microfilm camera and microfilm reader. The system can store and retrieve individual pages of original documents according to one or more three-digit code numbers assigned to the input material. At the microfilming stage, the MIRACODE camera transforms the code numbers into machine-readable binary codes recorded on film next to the page

TABLE 1: Coverage of the ICPP Project: Parties by Area, Country, and Time Period

Cultural-Geographical Area	Country	Parties per country	Parties by area	Number of 1950-56	1957-62	Number of parties in both periods
Anglo-American:	United States United Kingdom Australia Canada New Zealand Ireländ Rhodesia/Nyasaland Fe	2 2 3 4 2 2 3 3 4 4 2 3 3 4 4 4 4 4 4 4	22	22	22	22
West Central Europe;	Austria France West Germany Greece Portugal	3 5 3 4	16	16	16	i6
Scandinavia and Benelux:	Denmark Iceland Sweden The Netherlands Luxembourg	4 4 6 4	22	22	22	22
South America:	Ecuador Paraguay Peru ^y Uruguay Venezuela	5 3 5 2 3	18	14	18 ***	14 ,
Central America:	Dominican,Republic El Salvadór Guatemaía () Nicaragua () Cuba ()	at 2 2 3 4 4 5	1,7	, 12	1,2	. 7
Asia and the Far East:	Burma Cambodia Indonesia North Korea Malaya	2 } 4 1 5	16	13	14	11
<u>Eastern Europe</u> :	Albania Bulgaria East Germany Hungary USSR	2 5 u	10	10	10	10
Middle East and North Africa	a: Sudan Tunisia ** Lebanon Iran Turkey	3 1 4 4 2	'14 _#	. 12	14	. 12
West Africa:	Dahomey Ghana Guinea Upper Volta Togo tu	3 4 1 1 1	'13	،10	· 9	√ 6
Central and East Africa:	Central African Repul Chad Congo-Brazzaville Kenya		'10	4	10	4
10 x x	ŢŎŢĄĻ.	<u> </u>	158	135	147	124

Image. The film, which is loaded into magazines for convenient handling, can be searched for logical combinations of code numbers at the rate of ten feet per second at the MIRACODE retrieval station. Upon retrieval, the page image is projected on a ten by twelve inch viewing screen, Hard copies can be produced by pressing a button on the microfilm reader. Depending on the amount of coding per image, several hundred pages of material can be stored on on 180 foot film magazine and searched for specified combinations of code numbers in ten seconds. /2/

Researchers in the ICPP Project prepared their source material for the MIRACODE system by indexing the topics discussed on each page with reference to a set of coding categories, similar to the practice followed in the Human Relations Area Files (Murdock et al., 1967). The codes used to index the substantive content of the parties literature are given in Table 2. One or more of these index numbers were assigned to each page discussing party features or activities. The codes were then keypunched and fed into the MIRACODE camera as the original pages were being microfilmed.

Table Ž

The index codes were translated into a binary pattern of clear and opaque rectangles recorded on the film next to the page image. Figure 1 reproduces an actual frame from the microfilm cartridges for the Soviet Union, which contained 3,091 pages from 139 documents. The page in Figure 1 is from a Soviet English-language publication, History of the Communist Party of the Soviet Union. The film segment shows page 654 tagged with three indexing codes: 671 (for the CPSU), 820 (stability of parties in system), and 530 (issue orientation). The indexer selected these codes as most appropriate for retrieving the page's information content, which dealt with the discussion of the CPSU's new role in the development of a socialist economy.

Figure 1

The codes on the microfilm are sensed by an optical scanning device "which reads the codes flashing by the scanning head at rate of about 100 pages per second. Simply by pressing the desired humbers on a bank o't buftons at the MIRACODE station, a researcher can search the film quickly to retrieve all pages indexed with the desired code, or logical combination of codes. By searching for code 530; for example, one can rapidly retrieve and display in sequence all the pages for party politics in a given country which discuss the topic lissue orientation." Our microfilm file for the Soviet Union would return 248 pages indexed, for "issue orientation." Working on a multi-party country," the researcher could use the logical search capabitities of MIRACODE to selectively retrieve discussions of any particular party's . issue orientation. For example, our file of 2,844 pages from documents on French party politics would return 571 pages indexed for issue or lentation (530) alone. But by combining the search with code 113 for the French Socialist Party, the researcher would retrieve only 172 pages discussing issue orientation and the Socialist

Outline of Substantive Information Codes Used in Indexing Literature for the MIRACODE System TABLE 2:

			<u> </u>
0	What is a political party—definition, func-	440	National party committee
000	tions, theory, method of studying	450	Legislative organization
000	Definition of a political party	460	Ancillary organizations
010	Typology of parties	470	Functional/dysfunctional aspects of party
020	Functions of political parties	400.	structlire
- 030	Explicit propositions about parties	480*	Articulation of party structure
040	General theory about parties	490	Centralization of power
050	Purpose of studying parties		
060	Approaches to the study of parties	5	What does the party seek to accomplish-
070	Methodology of studying parties		party goals
		500	Gain control of the government,
1	How does a political party begin-party	510	Engage in coalitions and constitute opposi-
100	origin	520	tions
100	When was it formed		Place members in government positions
110	Who formed it and what was its base of elec-	530	Issue orientation
	toral support	540	Ideological orientation
120	Why was if formed,	550	Subvert the government,
130	How was it formed	560	Efficiency and effectiveness
140 150	Political history of party Organizational history of party	6—	Under what conditions does the party
100	Organizational material or party	•	operate-political environment
2	What does a political party do-party	600	National crises.
			4
000	activities	610	Political issues of consensus or cleavage,
	Selects candidates and party officials	620	Electoral system
210	Conducts election campaigns	630	Popular participation
220	Formulates party policy and builds party	640	Political norms and attitudes
	organization	650	Administrative byreaucracy
23 <u>0</u>	Influences government policy	660	The executive
240.	• •	670	The legislature
250	Discipline—maintenance of group solidarity	680	Government structure and political history
260°	Raises and disperses funds	690	Geographical allocation of authority:
270	Causes demonstrations, riots, assassina- tions, sabotage, etc.,	7	Under what conditions does the party oper-
200			
280	Intercedes in government action on behalf	700	ate—social, economic, geographic
600	of citizens (including members)		Economic *
290	Social activities	710	Geographic
_	K	720	Social *
3—	Who belongs to the party—party member-	730	Religious
	qide	740	Social norms and attitudes:
300	Party supporters	750	Activities of the military
310	Party contributors	750	Activities of the students
,320	Party members	770	Activities of the trade unions
330	Party workers and activists.	780	Activities of voluntary associations and
340	Party candidates		interest groups
350	Party members in government posts		i. ag
360	Party leaders and officials	8	Under what conditions does the party oper-
*370	Party factions	*	ate—party system
380	Organizational support	800	Number of parties
390	Independents		Election results
	- A 10 M		Stability of parties in system
4	How is the party organized—party or-	830	Interparty competition is
-	ganization t_{ij}	840	Interparty cooperation
400	Local party organization		Origin, support, and history of system
410	Constituency party organization	860	Status of party in party system
∗420	Regional party organization	870	Typology of party systems
430	National party convention, conference or	880	International party system "
	congress	,	· · · · · · · · · · · · · · · · · · ·
	1		gr. s.

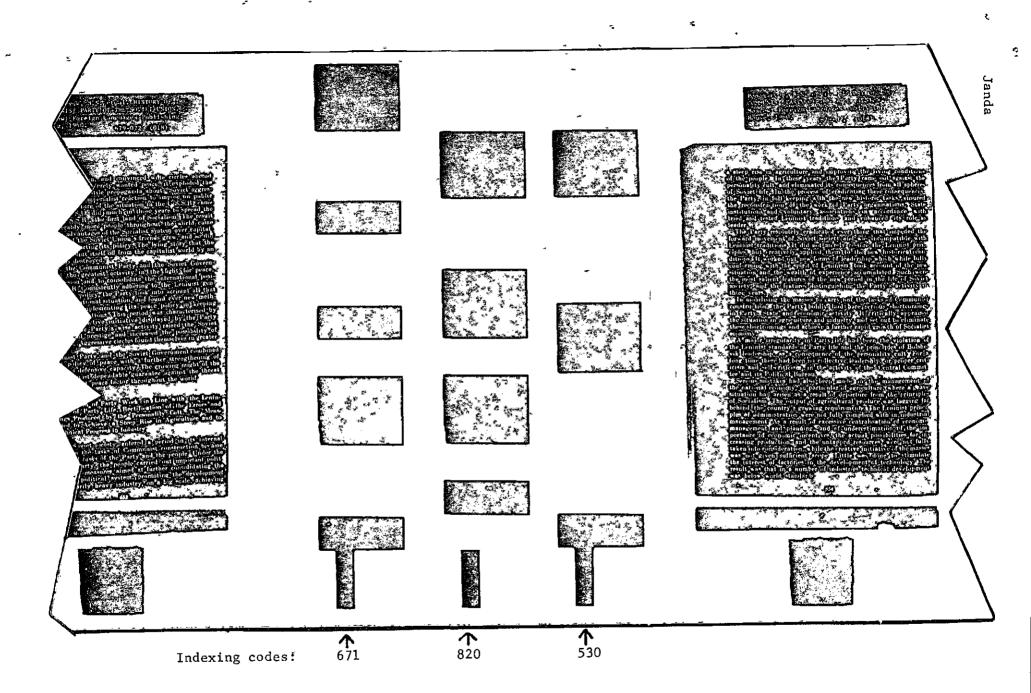


FIGURE 1: Segment of MIRACODE 16mm Microfilm for the Soviet Union showing page 654 from B.N. Ponomaryov et al., History of the Communist Party of the Soviet Union. Moscow: Foreign Languages Publishing House, 1960.

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Party.

However swift and powerful the MIRACODE system is in retrieving information from the literature stored on microfilm, the system does not eliminate the need for old-fashioned scholarship. Researchers must still sit patiently at the retrieval station, taking notes on the information retrieved. The system simply saves enormous time in searching the literature and provides the important advantage of retrieving, upon demand, the full text from which the notes were taken. But as always, researchers are left to themselves to collate the retrieved items of information and draw judgments from the literature about any party's issue orientation.

Formalizing and Recording Researchers Judgments

Indexing the literature in the MIRACODE system merely tagged the information for retrieval. The ICPP Project sought ultimately to score parties on a large number of variables organized under ten major concepts. Six concepts perfain to the parties "external relations" with society: their institutionalization, governmental status, goal orientation, issue orientation, social support, and autonomy. Four concepts deal with parties "internal organization": their complexity or degree of organization, centralization of power, coherence, and involvement. The information retrieved under the "issue orientation" indexing code was used to score the parties on several different issues under the general concept of issue orientation. He will limit our attention to this concept in explaining the other aspects of information management in the ICPP Project.

Researchers attempted to score all the parties in the project on thirteen different issues:

Government ownership of the means of production Government role in economic planning Providing for social welfare Redistribution of wealth Secularization of society Support of the military Alignment with East-West Blocs Anti-colonialism Supranational Integration Supranational Integration Relectoral Participation Protection of civil rights

Interference with civil liberties.
For the most part, these items were scored along a scale ranging from +5 (meaning a "leftist" response) to -5 (meaning a "rightist" response). For example, favoring nationalization of all means of production would earn a party the score of 5, while +5 would be assigned for opposing even government requiation of industrial production and marketing. Intermediate policy positions would be given intermediate scale positions according to specific instructions in a lengthy coding manual. (Janda, in press)

Due primarily to weaknesses in the information in our microfilm files, not all parties could be scored on each of these issues. Moreover, the quality of the information retrieved varied from poor to

excellent, depending on the party and the issue. We indicated the quality of our scoring judgments in two ways. First, each quantitative code, assigned to a party for a variable was supported by an accompanying qualitative or verbal discussion of the coding judgment. discussion might be as short as one or two lines or as much as one or two pages of text. Second, every variable code was also accompanied by an "adequacy"confidence" code, ranging from 1 to 9, designed to express the adequacy of the information base underlying the judgment and the researcher's confidence in scoring the party on the variable. (See Janda, 1970) A score of 9 signifies the highest degree of confidence, which reflects the fact that at least three sources provided the same information about the party and that there was no disagreement in the literature about the code that should be assigned. On the other hand, a code of 3 indicates that the variable score was inferred from scarce or even contradictory information. 'Adequacy-confidence codes of 1 and 2 were reserved for our inability to score the variable due to a total lack of information (AC1) or due to an irreconcilable conflict in the available information (AC2).

The combination of quantitative variable and adequacy-confidence plus the qualitative supporting commentary constituted a rich çodes mixture of quantitative and textual material assembled tor variables and 158 political parties. Our solution to the problem of managing this information mix was to employ a computer system for Information retrieval. The system chosen was Northwestern University's RIQS: Remote Information Query System, (See Mittman and Borman 1975) RIQS was used for storing the information as it was collected, for material to correct errors and verbal editing the improve descriptions, for updating the file as new information was received, printing all or part of the file on request. In fact, the printout of the entire RIQS file of ICPP information computer constituted the camera-ready copy for photo-offset printing of the first ,major publication from the project. (See Janda, in press)

Like most other information retrieval systems, RIQS allows the user great freedom in organizing the structure of information within the file. For the ICPP file, each party was established as a "record of information." Each record (party) was defined in RIQS terms as consisting of seventy items of information, as listed in Figure 2. The first item contains the English name of the party, its identifying code number, and the native language name (if the country is non-English speaking). Item two describes the the amount of literature indexed for the party and included in our microfilm files. The last 68 items in the RIQS record definition pertain to basic variables underlying the major concepts in our conceptual framework.

Figure 2

RIQS has the ability to search for specified combinations of sterms within any item or across items and to retrieve only those records (in whole or part) which satisfy the search command. RIQS also can produce alphabetized indexes to terms within any item. We will ignore these more powerful capabilities of RIQS and discuss only its simpler uses for selective retrieval of information from the ICPP file in response to requests from outside users. For instance, RIQS has

```
(1) PARTY NAME AND CODE NUMBER
 (2) INFORMATION BASE AND RESEAPCHERS
 (4) 1.03 DRGANIZATIONAL DISCONTINUITY
 (5) 1.04 LEADERSHIP COMPETITION
 (6) 1.05 / 2.05 LEGISLATIVE INSTABILITY AND STRENGTH
 (7) 1.06 / 2.06 ELECTOPHE INSTABILLTY AND STRENGTH
 (8) 2.01 GÖYERNMENT DISCRIMINATION
 (9) 2.02 GOVERNMENTAL LEATERSHIP
 Y10>42.03 CABINET PARTICIPATION
J(11) 2.04 MATIONAL PARTICIPAȚION
 (12) 2.07 DUTSIDE DRIGIN
 (13) 3.01/4.01/12.01 DCCUPATIONAL SUPPORT
 (14) 3.02/4,02/12.02 RELIGIOUS SUPPOPT
 (15) 3.03/4.03/12.03 ETHNIC SUPPORT
 (16) 3.04/4.04/12.04 REGIONAL SUPPORT
 '617), 3.05/4.05/12.05 URBAN-RURAL SUPPORT
(18) 3.06/4.06/12.06 EDUCATIONAL SUPPORT
(419) 5.01 DWHERSHIP OF MEANS OF PRODUCTION (20) 5.02 GOVERNMENT POLE IN ECONOMIC PLANNING
 (21)×5.03 REDISTRIBUTION OF WEALTH
 (22) 5.04 SOCIAL WELFARE ...
(23) 5.05 SECULARIZATION OF SOCIETY
(24) 5.06 SUPPORT OF THE MILITARY
(25) 5.07 ALIGNMENT WITH EAST-WEST BLOCS
 (26) 5'.08 ANTI-COLONIALISM'
 (27) 5.09 SUPRAMATIONAL INTEGRATION
(28) 5.10 NATIONAL INTEGRATION .
(29) 5.11 ELECTORAL PARTICIPATION
 (30) 5:12 FROTEÇTIDA DE CIVILMRIGHTS
 (31) 5.13 INTERFERENCE/WITH CIVIL LIBERTIES (32) 5.14 / 5.15 US--SOVIET EXPERTS LEFT-RIGHT RATINGS
 (33) 6.00 DREN COMPETITION IN THE ELECTORAL PROCESS (34) 46.10 RESTRICTING PARTY COMPETITION.
 (35) 6.20 SUBVERTING THE POLITICAL SYSTEM
(36) 6.30 PROPAGANDIZING IDEAS AND PROGRAM
 (37) 6.40 ALLYING WITH OTHER PAPTIES
 (38) 6.50 PROVÍDÍNG FOR WELFARE OF PARTY MEMBERS
 (39) 7.01 SOURCES OF FUNDS
 (40) 74.02 SOURCE OF MEMBERS
(41) 7.03 SOURCES OF LEADERS
  (42) 7.04 RELATIONS WITH DOMESTIC PARTIES
  (43) 7.05 RELATIONS WITH FOREIGN DREAMIZATIONS
  <44> 8.01 STRUČTUŘAL ÁRTICULATION
  (45) 8.02 INTENSIVENESS OF ORGANIZATION (46) 8.03 EXTENSIVENESS OF ORGANIZATION
  (47) 8.04 EREQUENCY OF LOCAL MEETINGS
(48) 8.05 FREQUENCY OF NATIONAL MEETINGS
  (49).8.06 MAINTAINING RECORDS
  (50) 8/07 PERVASIVENESS'(DE) DREANIZATION v
  (51) 9.01 NATIONALIZATION OF STRUCTURE
 (52) 9.02 SELECTING THE MATIQUAL LEADER
  (53) 9.03 SELECTIŅG PAPLIAMENTARY CANDIDATES
  (54) 9,04 ALLOCATING FUNDS
  <55> 9.05 FORMULATING POLICY
 <56> ๑.๗๑๎๙๐๊ทรัฅบนเหล้ ๓๐๗๎ฅบุทเด็กรับที่ร่
 (57) 9:07 ADMINISTERING DISCIPLINE
  (จื่อ) 9.08 เอค้าอครหเค เกทรู้อุทาคคาเกท
  (59) IÕ.OIÜLEGISLATIVE CÕHĘSIDN'
 .(60) 10.02 โมยมนิยย์เป็ญป คคุรโมยหคนุโรที่ "
  (61) 10.03 ĮŠSUĘ FACTIONALIŠM
  (62) FO. 04 LEADERSHIP RACTIONALISM
 (63) 10.05 STRATEGIC DR JACTICAL FACTIONALISM (64) 10.06 PARTY PURGES
  (65) 11.01 MEMPERSHIP REQUIREMENTS!
  (66) 11.02 MEMBERSHIP PARTICIPATION
  (67) 11.03 MATERIAL INCENTIVES
 (68) 14404 PURPOSIVE INCENTIVES
  (6%) 11.05 DOCTRINISM
 "(70) 11.06 PERSONALISM
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FIGURE 2: List of 70 Items Defining a Record of Information in the RIQS File on Political Parties

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enabled us to respond easily to three actual requests for (1) the names, name changes, and years of origin for all parties in the study, (2) certain issue orientation scores for selected European parties, and (3) scores for yet a different set of issue orientation variables for all the parties in the study. In each case, we used RIQS to select from our entire set of data only that information of interest to the writer, and we were able to provide not only the raw quantitative codes we had assigned to the parties on the variables but also the rich verbal discussion supporting and otherwise clothing the naked data.

We can illustrate this usage of RIQS by reporting the results of a search to display selected items of information for selected parties in the study. Consider this RIQS command:

ACCESS ICPP FILE

BEĞIN SEARCH OF RECORDS 1,2,11,12,171,671

PRINT (1) (19) (32)

The PRINT statement in this command identifies the items of Information to be retrieved: (1) the name of the party, (19) the party's position on government ownership of the means of production, and (32) the party's ideological position as described independently by "experts" in the United States and the Soviet Union. The BEGIN SEARCH, OF RECORDS statement identifies the parties for which this information was requested. As revealed in Figure 3, the six parties chosen, for this demonstration were the two major parties in the U.S. and U.K. plus the Portuguese National Union (now defunct, it was Salazar's old ruling party), and the Communist Party of the Soviet Union.

Figure 3

It is always risky for any broadly comparative cross-national to expose his codings for specific institutions in particular countries to scrutiny by area and country experts. The who analyses many institutions across nations must 'satisfied with a level of knowledge that the expert would regard superficial. But it is doubly dangerous to select for exposure the politically delicate topic of party ideology. Perhaps the choice is foothardy, but it also seemed the most stringent test of information base itself. Given the international setting for this paper, the challenge won out over common sense. In studying Figure 3, be reminded that the codes and text were prepared five into six years and nothing was changed for this paper. Moreover, also recall that the codes and text apply to parties as they operated in 1957-62. not as they necessarily operate today. (Indeed, the Portuguese party no longer exists.)

Looking only at the scores for item 19, we find that these six parties span the continuum in our coding of ownership of the means of production. The laftist end is anchored at +5 by the CPSU, while the Portuguese. National Union at -5 represents the other extreme. The other four parties are positioned in the middle ground. The British Labour Party stands closest to the CPSU and is the only other party on the "leftist" side of the continuum. The U.S. Democratic Party is located slightly to the right of the midpoint, just slightly less

60

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PECOPO MUMBER 1
1. PARTY MARE AND CODE MUMBER
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1. PARTY MARE AND CODE MUMBER
ARERICAN DEMOCRATIC PARTY, DOI

19. 3.01 DWERSHIP OF MEARS OF PRODUCTION
-1, ACT
IN GENERAL, THE DEMOCRATS HAVE HOT ADVOCATED GOVERNMENTAL CONTROL OF BASIC INDUSTRIES, WITH DME EXCEPTION.
THEY HAVE TENDED TO FAVOR GOVERNMENTAL DWHENSHIP OF POWER FACILITIES IN THE SQUTH AND WEST. THE DEMOCRATS
BACKED RURAL ELECTRIFICATION PROGRAMS IN THEIR PLATFORMS OF 1952 AND 1956, AND IN 1960 THEY CALLED FOR THE
DEVELOPMENT OF MULTI-PUPPOSE PLANS FOR MAJOR RIVER BASINS—ALTHOUGH THEY DID NOT PUSH NEW PROJECTS ONCE IN

DOPICE

3.14 / 3.15 US--SOVIET EXPERTS LEFT-RIGHT RATINGS

U.S. SATS NOTHING

SOVIETS SAY 1, ONE OF THE TWO PARTIES OF HONOPOLISTIC CAPITAL IN THE USA. IN THE SECOND HALF OF THE 19TH CENTURY, THE PARTY RECAME ONE OF THE RULING PARTIES OF FINANCIAL CAPITAL. AT THIS TIME, DIFFERENCES BETWEEN THE DEMOCRATIC AND REPURLICAN PARTIES BECAME OBLITERATED AS BOTH BECAME THE POLITICAL ORGANIZATIONS OF THE RULING CLASS OF THE BOURGEOISTE.

RECORD MUTSER 2

3. PARTY HAME AND CODE NUMBER
518-10-. AMERICAN REPUBLICAN PARTY, GOZ

19. 9-01 DWNERSHIP OF MEANS OF PRODUCTION

3.03 OWNERSHIP OF MEANS OF PRODUCTION

-3, ACG

REPUBLICANS HAVE CONSISTENTLY OPPOSED THE ESTABLISHMENT OF FEDERAL "VALLEY! AUTHORITIES, SUCH AS TVA, AND MAVE STORD GAGAINST FEDERAL GIVE PHARMAL OWNERSHIP OF POWER FACILITIES BUILT IN COMMECTION WITH SUCH PROJECTS.

INDEED, THE PARTY HAS CONTINUALLY WORKED TO RESTORE POWER DEVELOPMENTS TO PRIVATE ENTERPRISE. IN ADDITIONATIVE PARTY HAS SUPPORTED THE FREE ENTERPRISE SYSTEM IN COMPON CARRIER TRANSPORTATION, AND IT HAS OPPOSED THE FEDERAL GOVERNMENT'S CLAIM TO DIL IN THE TIDELANDS OFF STATE COASTS. (HARRIS, 1962--12)

32. 3-14 / 5-12 US--SOVIET EXPERTS LEFT-RIGHT RATINGS
U.S. SAYS NOTHING
SOVIETS SAY 1, ONE OF TWO PARTIES OF MONOPOLISTIC CAPITAL IN THE USA. AFTER THE CIVIL WAR, THE PARTY BECAME A REACTIONARY PARTY OF THE UPPER BOURGEOISTE AND A SUPPORTER OF LARGE MONOPOLIES.

RECORD NUMBER
L. PARTY HARE AND CODE NUMBER
BRITISH LABOUR PARTY, 011
0. 5.01 DMMERSHIP OF MEANS OF PRODUCTION

SHIT OF READS OF PRODUCTION

3, ACT

IN THE ELECTION OF 1949, THE VICTORIOUS LABOUR PARTY CAMPAIGNED ON A PROGRAM OF NATIONALIZATION, WHICH WAS'

"SANTING." PLEDGED TO EXTEND THE SCOPE OF NATIONALISATION IN 1350, THE LABOUR GOVERNMENT IN FACT FAILED TO ACT

AND SEVEN DROPPED PLANS TO NATIONALISE THE SUGAR AND CENENT INDUSTRIES. PLEDGES TO AFRAITONALISE THE STEEL, AND

"SOUT THE WERE CONSTANT STEEP THE CONSERVATIVES DENATIONALIZED THEN IN 1951, BUT PLANS TO ESTEND THE SYSTEM TO

AND SEVEN DROPPED PLANS TO ANTONALISE THE SUGAR AND CENENT IDMINISTED. PLEDGES TO AFRAITONALISE THE STEEL

INDUSTRY WERE CONSTANT STEEP THE CONSERVATIVES DENATIONALIZED THEN IN 1951, BUT PLANS TO ESTEND THE SYSTEM TO

ROUS AREAS OF THE ECONDRY FROM WATER SUPPLY TO NACHINE TOUS. WERE EVENTUALLY SMELEVED IN FA ONE OF THE SYSTEM TO

PROMISES TO TAKE OVER "CONCEPNS THAT FAIL THE NATION," DESPITE AN OCCASIONAL VOICE DENANDING THE ABOLITION OF

CAPITALISM, THE PARTY WAS BY 1999 QUICK TO DESTROY RUNDURS THAT IT INTENDED TO TAKE OVER THE GOD LARGER FIRMS,

IMISSTING THAT ITS PLANS WERE REQUIATORY ONLY. THE PARTY SET INCREASINGS TORE UPON "ENTERPRISE," EVEN IN "PIVATE HANDS AND TOVARDS THE END OF THE PERIOD WAS URGING THAT THE COMMUNITY BE ALLOWED TO PROFIT FROM THE

PROTATE HANDS AND TOVARDS THE END OF THE PERIOD WAS URGING THAT THE COMMUNITY BE ALLOWED TO PROFIT FROM THE

MATIONALISATION, HOWEVER, WAS INCREASINGLY A DEAD ISSUE ELECTORALLY AND THIS PARTIALLY ACCOUNTS FOR DECREASING

LOYALTY TO THE PRINCIPLE. MOWEVER, ALL ATTEMPTS TO DROP THE IDEAL OF PUBLIC OWNERSHIP FROM THE PARTY'S

PROCRAM IN 1939 WERE DEFEATED.

19 US—SOVET EXPERTS LEFT—FIGHT RATIHGS

US SAYS 3, NON-COMMUNISTLEFT

SUVSETS SAY 2, THE PARTY NUMBERS AMONG ITS RAMKS TRADE "UNION REBBERS AND MERBERS OF COOPERATIVE SOCIETIES AND PROFESSIONAL GREATIZATIONS." IT HAD A BRIDD PROGRAM OF SOCIOECHODIC REFORMS." BUT IT SUCCURBED TO PRESSURE FROM ENGLISH MONOPOLISTIC CIRCLES AND INTERMATIONAL FRANKTIONAL FRANKTIONAL FRANKTIONAL FRANKTIONAL FRANKTIONAL FRANKTIONAL FRANKTIONAL FRANKTIONAL F

RECORD MUNG FR

CORD MUMBER

PARTY MANE AND CODE NUMBER

BRITISH CONSERVATIVE PARTY, 022

STRICTLY SPEAKING, THE TERM CONSERVATIVE PARTY APPLIES ONLY TO THE PARLIAMENTARY ORGANIZATION, WHICH IS

SUPPORTED DUTSIDE OF PARTY TANENT BY THE NATIONAL UNION OF CONSERVATIVE AND UNIONIST ASSOCIATIONS OF ENGLAND AND

MALES AND SEPARATE ORGANIZATIONS IN SCUTLAND AND MORTHERN TRELAND.

S.OL OWNERSHIP, OF YEARS OF PRODUCTION

THE SALES AND STREAMS OF PRODUCTION

*2, ACT

THE PARTY'S ATTITUDE TO THE CWNERSHIP OF THE HEARS OF PRODUCTION IN THIS PERIOD WAS SOMEWHAT AMBIGUOUS. PARTY
ORATORY CONSISENTLY DEMOUNCED STATE OWNERSHIP IN PRINCIPLE AND ALIGNED-ITSELF WITH PREE PRIVATE ENTERPISE AND
ON ACCESSION TO PHYRE IN 1991 THE PARTY DEMATIONALIZED SEVERAL INDUSTRIES, NOTABLY SIEEL AND ROAD HAULAGE.

BOTH ACTIONS AND RECORDS, HOWEVER, WERE OECCIPIVE. AS A CONSEQUENCE OF THEIR CPUSHING ELECTORAL DEFEAT IN
1945 THE PARTY LEADERSHIP HAD COME TO REALIZE THAT CERTAIN SOCIAL-DEMOCRATIC PRIGRAMMES, INCLUDING A DECREE OP
NATIONALISATION, WERE IMSEPARABLE FROM ELECTORAL SUCCESS. IN OPPOSITION, THEREFORE, THE PARTY CONCENTRATED
OTHERS. IN GOVERNMENT, MARROVER, THE EXECTOR INTO ANALISATION WAS LESS THAN PLEOGED AND THE PARTY EVEN
OTHERS. IN GOVERNMENT, MARROVER, THE EXECTOR INTO ELECTRICAL GENERATION BY ATOMIC POWER, SEEKING CREDIT FOR THIS
ACTION IN ITS PROPAGANDA.

ACTION IN ITS PROPAGANDA.

22. 9.14 5.19 US—SOVIET EXPERTS LEFT—RIGHT RATINGS

US SAYS-12, CONSERVATIVE
SOVIETS SAY 13, REPRESENTED BY THE RULING CLASSE'S OF ENGLAND AND REFLECTS THE INTERESTS OF MAJOR FINANCIAL AND INDUSTRIAL CAPITAL AND LAMOUNNERS. "HEBERS ALSO INCLUDE UPPER MILITARY OFFICERS, CIVIL SERVANTS, PART OF THE BOURGEOISIE INTELLIGENTS IA, PERCHANTS, AND WORKERS ARISTOCRACY.

RECORD MUNBER

ŀ

CORD MUMBER 171

PARTY MAME AND CODE MUMBER

"PORTUGUESE NATIONAL UNION, 171

UNION MACIONAL, 171

5.01 DEMERSHIP OF MEANS OF PRODUCTION

RECORD NUMBER 671
1. PARTY NAME AND CODE NUMBER
COMMUNIST PARTY

COMMUNIST PARTY OF THE SOVIET UNION, CPSU, 67 KOMMUNISTICHES KATA PARTITA SOVIETSKOGO SOLUZA

19. -5.01 OWNERSHIP OF MEAKS OF PRODUCTION

HIP OF MEARS OF PRODUCTION

3, ACO

WHILE GOVERNMENT OWNERSHIP OF ALL MEANS OF INDUSTRIAL AND AGRICULTURAL PRODUCTION EXISTS GENERALLY, VESTIGES

OF PRIVATE OWNERSHIP BENAIN IN THE SOVIET AGRICULTURAL SYSTEM AS EXEMPLIFIED BY THE PRIVATE PLOTS OWNED

INDIVIDUALLY BY THE COLLECTIVE FARH WORKER, INDEED, THE CELLECTIVE FARES—WHO DUMBER, 30,000,000—ARE NOT

GOVERNMENT SALARIED AS THEIR COUNTERPARTS ON THE STATE FARMS, BUT IN PRINCIPLE JOINTLY OWN THE COLLECTIVE FARM

AND SHARE IN. ITS PROCESOS. IN THE EARLY 1960°S, THERE ALSO REHAINED APPROXIMATELY 200,000 PRIVATE FAPMERS.

ALTHOUGH GOVERNMENT OWNERSHIP AND CONTROL ALSO EXTEND INTO ALL AREAS OF BUSINESS AS WELL AS NOT-BUSINESS.

ACTIVITIES—SUCH AS EDUCATION, SCIENCE, ARTS—AND THE PROVISION OF PUBLIC AND PROFESSIONAL SERVICES, PRIVATELY

SALARIED ARTISANS NUMBER AROUT 900,000 AND A FEW DOCTORS, DENTISTS, AND LAWYERS CONDUCT PRIVATE PRACTICE ON

SALARIED ANILSAND RUNGER RIGG. 300,000 "THE SIDE. 9.14 / 5.19 US-SOVIET EXPERTS LEFT-REGHT RATINGS U.S. "SAYS 4, COMMUNIST. SQVIETS SAY MOTHING.

FIGURE 3: Example of RIQS Printout of Issue Orientation Items 5

o.

rightist than the British Conservatives. The U.S. Republican Party is placed further to the right but not as far as the Portuguese Party.

The "AC7" codes accompanying our scores for the Democratic, Labour, and Conservative parties reveal something less than complete confidence in those evaluations, while the "AC9" codes for the other parties indicate more satisfaction with their placements. The text accompanying each code is intended to provide some explanation of coding judgment. Obviously, the brief space allotted to these comments they be only illustrative rather that than complete dictated discussions of any party's positions, and no doubt the remarks will themselves occasion some disputes concerning our interpretations. But if one wishes to improve the quality of information in the system, one must invite such disputes and provide for correcting or extending data according to new arguments or information.

One should always inquire into the validity and reliability of any research, especially a study which seeks to "rate" parties for their issue orientations. Concern about the validity and reliability of our research was paramount in the ICPP Project and has been discussed at length elsewhere. (See Janda, in press, Chapter 14.) In this paper, we will only consider the matter of the reliability of our scoring of parties on ownership of the means of production by comparing our ratings with those of presumed "experts" in the United States and the Soviet Union. The experts ratings are reported under item 32 in Figure 3.

From the early 1950s until 1974, the U.S. State Department's Bureau of Intelligence and Research classified parties as "Communist," "Non-Communist Left," "Center," and "Conservative" in its report, Horid Strength of Communist Party Organizations. In addition to providing detailed information on the membership and strength of communist parties throughout the world, this publication reported election results and legislative representation for all parties country, with the parties classified in one of the categories mentioned above. Although the State Department appears to have used "right" or "rightist" as a regular category, ΙŶ occasionally identified parties as "ultra-conservative" or, as in the National Union, *authoritarian. * The ICPP the Portuguese Project has translated the State Department's four regular categories following scale: 1=Conservative, 2=Center, 3=Non-Communist Left, and 4=Communist. Naturally, the State Department did not rate the American parties, but one can see that their ratings for the other parties corresponded rather well to our scorings on ownership of the means of production.

Those who might be suspicious of values or blases affecting the judgments of country experts in the U.S. State Department might welcome the alternative ratings by experts in the Soviet Union. Politicheskie Partil Zarubezhnykh Stran (Political Parties of Foreign Countries, 1967) is a Soviet publication that reviews the origins. and parties across the world. Done in programs o f reference-book style like <u>Horid</u> Sirength oi Communist Party Organizations, this source devotes approximately a page to each country covered. While it does not conveniently classify parties into four categories like the State Department, it does employ a limited and familiar vocabulary in describing parties. We have translated these descriptions into a three-point scale as follows: /3/

- 1 = Right: parties described as supported by the upper bourgeoisie, church leaders, landowners, reactionaries, capitalists, anti-democratic elements, anti-communists
- 2 = Center: parties characterized as supported by the petty bourgeoisie or characterized with contradictory terms
- 3 = Left: parties supported by workers or revolutionary, socialist, or progressive forces; parties described as Communist, Marxist-Leninist, or Socialist

Naturally, the Soviet experts did not rate the CPSU, but one can see that their evaluations of the other parties on the left-right scale again coincided rather well with the ICPP Project's classification for ownership of the means of production. Moreover, the U.S. and Soviet experts are largely in agreement on the three parties that they both describe. The only discrepancy, and it is slight, concerns the British Labour Party, which the U.S. rates as definitely leftist, while the Soviets describe it somewhat ambiguously, leading to our interpretation of their judgment as "centrist."

These isolated comparisons are interesting, but there is also value in the broader picture concerning the reliability of our coding. What is the relationship between our codes and the experts ratings for all athe parties in the study? To express this relationship succinctly, we must turn to the last aspect of the ICPP Project's information system, the management of quantitative data collected on the parties.

Analyzing Quantitative Data in the ICPP Project

The scores and associated adequacy-confidence codes for 111 variables subsumed by the ICPP conceptual framework were incorporated into a computer data file for processing with SPSS (Statistical Package for the Social Sciences). (See Nie et al, 1976.) SPSS can be used to generate a cross-tabulation between the two sets of experts ratings and government ownership of the means of production for all parties scored on these variables in the 1957-62. The cross-tabulation appears in Table 3.

Table 3

One can see the strong relationship between our scoring of parties on ownership of the means of production and the U.S. ratings for 97 parties and also between our scores and the Soviet ratings for 109 parties. The correlations are .81 and .75 respectively data in the tables. /4/ The similarity of these results leads to the expectation of a high correlation between the U.S. and Soviet ratings In fact, the correlation is a very high .86, as displayed themselves. in Table 4. The Americans and Soviets differ no more than one number for all the parties, with one exception: a party classified "Non-Communist Left" (our code 3) by the State Department but classified as "Rightist" (our code 1) from our reading of the Soviet description. This party was the Social Christian (COPEI) of Venezuela. which the Soviets described as representing the interests o f landowners, upper bourgeoisie, and church leaders--resulting in our

TABLE 3: Cross-Tabulation of U.S. and Soviet Experts Ratings with Parties' Scores on Government Ownership of the Means of Production

ICPP Variable: Owne	rahin [†] :	் ் ப்.S. State Department Experts					Soviet Exp		erts	
of Means of Produ			Lafeist.	Center 2	Conservativ	•	Left 3	Center 2	Right	
	, k#	, A	٤		% %	č.				
Strongly opposed:	- 5	*		1	² 5	-		1	7	
The state of the s	-4	* tags		<i>7</i> e	- 1				1	
***	-3" .			õ	* 9 [*]			1	14	
	- 2 *	±		2	2 2			1	4	
- <u>.</u>	-1		1	.7	. 10			4	14	
Neutral/ambiguous:	÷0 .	بين. ش	1	1	1	79. SA	1	3	1	
	1 4		·5	3 **	à a	4	÷ 5 *	4	2	
.# **	2 -	-	.4	**	1			4	1	
	3 .	5	7	5	1		8.	11	3	
**	4 -	1	3	•	>		3.	1		
Strongly support	5	13	2				13	2		

- Pearson's correlation, r = 381.

r = .75

"Rightist" classification. Otherwise, there is an extraordinary, and perhaps unexpected, similarity between the ratings of parties on the left-right continuum by experts in systems with opposing ideologies.

Table 4

Of course, the left-right continuum embraces a variety of issues in addition to "ownership of the means of production." The ICPP data can be used to determine what other issues relate to the experts ideological ratings. Table 5 reports the simple correlations between the party scores in 1957-62 and the scales created to capture the U.S. and Soviet experts ratings. Not all 147 parties in 1957-62 could be scored on all 13 issues. Moreover, the Soviet source only reported information useful for coding 117 parties, and the U.S. source classified only 101. Thus, the numbers of parties underlying each correlation varies with the issue. The average number supporting the correlations with the Soviet ratings is 87 and that for the U.S. is 79. Although the data are not complete, substantial numbers of political parties are involved in these correlations, and the results cannot be attributed to idiosyncratic patterns of a few cases.

"Table 5"

There are several striking features about the data in Table 5. First, the correlations of the Issue orientation variables with the U.S. ratings and the Soviet ratings are similar over all the Issues, which follows from the high correlation between the experts themselves. Second, note the signs attached to the correlations. Recall that the variables were all operationalized in a manner which equated positive scores with "leftist" positions and negative scores with "rightist" positions. For most of the Issues, "leftism" was interpreted as favoring greater governmental activity in the Issue area. According to the assumption into our scoring, therefore, all thirteen Issue variables should correlate positively with the experts ratings, which were also coded with the high values equated with "leftism." The correlations are indeed positive for all but three of the thirteen variables, and only two display negative correlations for both experts ratings.

"Support of the military." Is consistently and significantly (at the .05 level) correlated negatively with expert ratings of party ideology. Although the granting of increased financial support to the military would appear to be consistent with a general position favoring greater governmental activity to solve social problems, the parties of the world are able to separate this particular issue area from their basic governmental philosophy, with parties of the right and left switching positions, as it were, when the support of the military is at hand. Thus, the popular image of rightist parties being pro-military and leftist parties being anti-military stends to be confirmed, contrary to the logic of our scoring.

"Electoral participation" and "supranational integration" are the two other issues which are either negatively or negligibly related to

113

TABLE 4: Cross-Tabulation of U.S. and Soviet Experts'
Ratings of the World's Parties

		U.S. State Department Experts				
oviet Experts'		Communist 4	Leftist 3	Center 2	Conservative	
Right:	1		1*	12	24	
Center;:	2		,16	11	3	
Left:	3	18	7		•	

*COPEI in Venezuela; see discussion in text.

TABLE 5: Correlations of Experts' Ratings with all Issue Orientation Variables

	<u> </u>		<u></u>
Issue Orientation Variables	U.S. Experts	Soviet Experts	žī Į
Government Ownership*	£81	.75	1.
Economic Planning*	. 61	.59	
Redistribution of Wealth*	.70	• 66	
Social Welfare*	• •53	.,50 **	
Secularization of Society*;	.39	•.40 [°]	
Support of the Military**	29°	.±.37 .	
East/West Alignment*	*. *.72°	. 67	
Aņťi-Colonialism*	20	.40	, f &)
Supranational Integration	12 ", "	₩ <mark>%</mark> 02	
National Integration	.19	.37	
Electoral Participation**	15	·24	
Protection of Civil Rights**	.26	·.25 · ·	
Interference with Civil Liberties**	.20	.24	
**			

^{*}Variables which emerged on a "Marxism" factor after factor analysis.

(See Footnote 5 for a discussion of the factor analysis.)

**Variables which appeared on a "Liberalism" factor after factor analysis...

the expert ratings. For both groups, high electoral participation is <u>not</u> a hallmark of leftism, and "supranational integration" (e.g., support of the European Community) is essentially unrelated to this continuum also.

As we examine more carefully the U.S. and Soviet patterns in comparison with one another, some of the minor deviations begin to gain importance. leading toward an understanding of what we did not know before: precisely which factors do influence U.S. and evaluations of political parties as "leftist" and "rightist." Issues with high correlations for both experts in Table 5 signal existence of important factors in their ideological ratings. /5/ The factor that appears to loom largest in their judgments is the parties" positions on "government ownership of the means of production," which correlates the highest with the ideological rankings of communists and alike. Although the next two issues are also economic in character and have substantial correlations with the Soviet and U.S. ratings. thev seem less important than the non-economic politically variable. "East/West allunment. strategic correlations are second only to ownership of production. Thus it position on global appears that a party's politics contributes independently of its economics to its placement on the left-right scale.

If we limit ourselves to accepting as important ingredients left-right judgments only those issues which correlate consistently above .45 in Table 5, our search is satisfied only *economic planning, " "distribution of wealth, " and "social welfare" -in addition to government ownership and East/West alignment. It the Soviet and American experts relied on approximately the same extent in making their judgments. But further, we find that the Soviets are somewhat more likely to involve in ratings, the parties* positions on such issues "secularization of society," "support of the military," and "national integration. The U.S. State Department, on the other hand, is less likely to reflect any of these political issues in their ratings, which are based more on party economics. Thus there are similarities in the experts bases of judgment but significant differences as well. By and large, the Soviet evaluation is sensitive wider range of issues than the U.S. evaluation, ironically. tends to classify parties on a more economic--even Marxist--basis.

Summary and Conclusion

The information processing techniques described in this paper have been discussed mainly for their contributions to managing the information collected in the ICPP Project rather than for their role in analyzing the information to advance our understanding of political parties. Of course, the project exists for the comparative analysis of parties across nations and not primarily for the collection and distribution of data. Only a few examples of studies done at Northwestern University with the ICPP data will be cited to illustrate the research undertaken already. Studying the effect of environmental and party-level factors on centralization of power within parties. Harmel (1978) found that environment alone (i.e., the political

structure of the country and its demographics) explained 68 percent of the variance in party centralization. Inquiring into the effect of social support on electoral success, Gillies (1979) concluded that electoral success was as likely to cause social diversity as it was likely to be a consequence of social diversity, which runs counter to most arguments in the literature. In his studies of environmental effects on complexity of party organization, Janda (1978) determined that 70 percent of the variance in party complexity could be explained with a combination of 6 environmental variables and 4 party-level variables, and (in keeping with Harmel's findings) the environmental themselves accounted for most of the total effect on complexity. In a later study of organizational effects on party performance, Janda (1979a) found that complexity, centralization, and involvement could explain nearly 30 percent of the variance in electoral success, with complexity and centralization both positively related to electoral success, while involvement was negatively related. The same variables, plus factionalism, could also explain about 40 percent of the variance in party cohesion in conflictual lègislatures.

Although it is true that the ICPP Project is essentially a quantitatively oriented study, the information technology that it utilized is not wedded to that type of study. Any scholarship which involves compiling large bibliographies, storing and retrieving documents for analysis, and storing and retrieving copious notes on yalue in those documents should find information technology. And when the time comes to write the research report, modern technology can be used to advantage in drafting and editing the 'text. This paper, for example, was composed directly on a computer terminal over a nine day period. The final copy was then printed without the annoying wait for it to be typed. If information technology has no other benefits for humanity than prompt return of neatly typed manuscripts, impatient scholars might find that adequate justification for its use.

FOOTNOTES

- 1. According to the 1978-79 <u>Report</u> of the Inter-University Consortium for Political and Social Research, which is the leading repository and distributor of computerized data files, Consortium membership is held by institutions in 13 countries outside the United States. This includes Australia, Belgium Brazil, Canada, Federal Republic of Germany, Israel, Japan, Kuwait, the Netherlands, Norway, Sweden, Switzerland, and the United Kingdom. Interest in computer analysis in other countries was demonstrated at a 1974 Conference on Computer Applications to Social Inquiry held in Warsaw and attended by representatives from Bulgaria, Czechoslovakia, Finland, Hungary, Yugoslavia, and, of course, Poland.
 - 2. The Eastman Kodak Company has informed me that the MIRACODE system has been superceded by their "ORACLE" system, which handles the storage; and retrieval of information from microfilm somewhat differently from that described here.
 - 3. I wish to thank my wife. Ann Janda, for translating the Russian-language source material referred to in this paper.
- 4. Due simply to the fact that the U.S. ratings are measured on a four-point scale and the Soviet ratings on a three-point scale, one would expect somewhat higher correlations between the U.S. ratings and the issue scores than between the Soviet ratings and the issue scores. In essence, the argument is that the greater number of scale points allows for finer and thus "truer" measurement, which would yield a higher correlation.
- 5. "Electoral participation" and "supranational integration" are not the only variables only weakly related to the experts" ratings. The last five variables all have uninspiring correlations with their ratings. Although, there is some element of commonality among these variables and an underlying left-right continuum, it is not great, and one suspects there is some other dimension that might hold more in common with the errant variables.
- A general statistical method for identifying such underlying dimensions is factor analysis, and a factor analysis of the entire "matrix of intercorrelations did prove helpful. In brief, the analysis disclosed four factors accounting for 70 percent of the variance among the thirteen issues but only two major dimensions. The first was the postulated left-right dimension, which encompassed the six variables starmed in Table 5. The second dimension extracted high loadings from these variables: "support of the military," "electoral participation." 📆 protection of civil rights, and linterference with civil liberties. This pattern of variables has been interpreted as indicative of an « underlying "liberalism" factor--so named due to the predominance of variables associated with classical liberal values. These variables, which are double-starred in the table, are intercorrelated more closely among themselves than they are with those in the left-right factor.

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