

Effective immediately, the European and worldwide distribution of the Protein Data Bank formerly undertaken by the Cambridge Crystallographic Data Centre will be handled directly from Brookhaven National Laboratory. Thus, all orders previously directed to Cambridge should be sent to Brookhaven. The order form on pages 5-6 of this Newsletter has been modified to reflect this change. Please note that Brookhaven requires that a check or written purchase order be received prior to filling an order. Also, all orders should be paid by a check in U.S. dollars drawn on a U.S. bank. If this cannot be arranged, an additional \$10.00 must be included to cover bank charges.

At this time, we would like to express our appreciation to the Cambridge Data Centre staff for their invaluable contributions to the Protein Data Bank over many years. Brookhaven will make every effort to maintain the excellence of service Cambridge provided to many overseas users.

Inquiries may be addressed to any of the persons listed below. The order form on pages 5-6 of this Newsletter may be used to order data from Brookhaven. Users in Australia or Japan should contact their centers for detailed information.

<u>Area</u>	<u>Address of Center</u>	<u>Name</u>	
Worldwide except Australia and Japan	Protein Data Bank	E. E. Abola	516-282-4383
	Chemistry Department	F. C. Bernstein	516-282-4382
	Brookhaven National Laboratory Upton, New York 11973, USA	T. F. Koetzle	516-282-4384
Australia	CSIRO Central Information Service P. O. Box 89, East Melbourne Victoria 3002, Australia	T. Graddon	03-418-7266
Japan	Institute for Protein Research Osaka University Yamadaoka, 3-2, Suita, Osaka 565, Japan	Y. Katsube K. Yoshida	(06) 877-5111 ext. 3912

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TABLE 1. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MAGNETIC TAPE

CODE	ITEM	AVAILABILITY USA JAP AUS
DATAPRTP	ALL CURRENT COORDINATE ENTRIES (TABLE B), COMPUTER PROGRAMS (TABLE 3, PART A), ALL CURRENT BIBLIOGRAPHIC ENTRIES (TABLE 10 - NO COORDINATES IN BIB ENTRIES)	X X X
YEAR85TP	NEW OR REVISED COORDINATE ENTRIES FOR 1985	X
PART86TP	NEW OR REVISED COORDINATE ENTRIES 1986 (TO DATE)	X
PDBPGMTP	COMPUTER PROGRAMS AND MISCELLANEOUS FILES (TABLE 3, PARTS A AND B)	X
NONST11P	STRUCTURE FACTOR HOLDINGS (PART 1 - TABLE 4)	X X
NONST12P	STRUCTURE FACTOR HOLDINGS (PART 2 - TABLE 5)	X X
NONST13P	STRUCTURE FACTOR HOLDINGS (PART 3 - TABLE 6)	X X
NONST14P	STRUCTURE FACTOR HOLDINGS (PART 4 - TABLE 7)	X X
BENDERTP	PARAMETERS FOR BENT-WIRE MODELS	X
BLDKITP	MODEL BUILDER'S KIT	PLEASE INQUIRE AT US CENTER
CONECTP	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	X
DGLOTP	DIAGONAL PLOTS (LINE PRINTER)	X
DIHDLTP	COMPLETE TORSION ANGLES	X
DSTNCTP	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	X
FISPLTP	PHI/PSI PLOTS (LINE PRINTER)	X
PHIPSITP	LISTS OF PHI/PSI/OMEGA VALUES	X

* NEW OR REPLACEMENT ENTRY SINCE APR-86 NEWSLETTER

TABLE 2. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MICROFICHE

CODE	ITEM	AVAILABILITY USA JAP AUS
DATAPRF1	ALL CURRENT COORDINATE ENTRIES (TABLE B), COMPUTER PROGRAMS (TABLE 3, PART A), ALL CURRENT BIBLIOGRAPHIC ENTRIES (TABLE 10 - NO COORDINATES IN BIB ENTRIES)	X X
YEAR85F1	NEW OR REVISED COORDINATE ENTRIES FOR 1985	X
PART86F1	NEW OR REVISED COORDINATES ENTRIES 1986 (TO DATE)	X
CORR18F1	LIST OF CORRECTIONS NO. 18 (JAN/86 - JUL/86)	X X X
NONST1F1	STRUCTURE FACTOR HOLDINGS (PART 1 - TABLE 4)	X X
NONST2F1	STRUCTURE FACTOR HOLDINGS (PART 2 - TABLE 5)	X X
NONST3F1	STRUCTURE FACTOR HOLDINGS (PART 3 - TABLE 6)	X X
NONST4F1	STRUCTURE FACTOR HOLDINGS (PART 4 - TABLE 7)	X X
BENDERF1	PARAMETERS FOR BENT-WIRE MODELS	X
BLDK1F1	MODEL BUILDER'S KIT	PLEASE INQUIRE AT US CENTER
CONECTF1	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	X
DGLOTF1	DIAGONAL PLOTS (LINE PRINTER)	X
DIHDLF1	COMPLETE TORSION ANGLES	X
DSTNCF1	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	X
FISPLF1	PHI/PSI PLOTS (LINE PRINTER)	X
PHIPS1F1	LISTS OF PHI/PSI/OMEGA VALUES	X

* NEW OR REPLACEMENT ENTRY SINCE APR-86 NEWSLETTER

TABLE 3. PROTEIN DATA BANK, COMPUTER PROGRAMS AND MISCELLANEOUS FILES

NAME	PURPOSE	AUTHOR(S)	REV DATE/ SUPPORTED
PART A - AVAILABLE ON DATAPRTP, DATAPRF1, PDBPGMTP			
BENDER	PARAMETERS FOR BENT-WIRE MODELS	G. WILLIAMS	4/82 YES
BLDKIT	MODEL BUILDER'S KIT	E. ABOLA	2/84 YES
BRUKIT	MAKE VAX/VMS FILES FROM PDB TAPE	H. BOSSHARD	8/85 NO
CHIRAL	CHECK CHIRALITY	E. ABOLA	1/82 YES
CONECT	GENERATE FULL CONNECTIVITY	F. BERNSTEIN	8/82 YES
CONCTC	INTERMOLECULAR CONTACTS	L. ANDREWS	1/83 YES
DGLOTP	DIAGONAL PLOTS ON PRINTER	E. SHANSON, F. BERNSTEIN	3/80 YES
DIHDLR	COMPLETE TORSION ANGLES	E. ABOLA	5/83 YES
DSSP	DIRECTORY OF PDB DISTRIBUTION TAPE	E. ABOLA	7/86 YES
DSTNCE	SECONDARY STRUCTURE, SOLVENT EXPOSURE, KABSCH, C. SANDER	ANDREWS, WILLIAMS, BERNSTEIN	12/83 NO
FISPL	CALC DISTANCES FROM CONTACT RECORDS	F. BERNSTEIN	8/82 YES
LSM	PHI/PSI PLOTS ON PRINTER	F. BERNSTEIN	5/79 YES
NAMOD	COLOR-CODED ALPHA-CARBON MODELS	R. MATELA, R. FLETTERICK	3/82 NO
PHIPS1	BALL-AND-STICK MODEL DISPLAY	Y. BEPPU	11/78 NO
REFMTB	MAIN-CHAIN TORSION ANGLES	ANDREWS, WILLIAMS, BERNSTEIN	2/79 YES
STEREO	REFORMAT DATA FOR SUPERB, SUPERB	L. REELICK, J. DUANE	3/82 NO
TAPOIR	EXTRACT X, Y, Z FROM STEREO DIAGRAMS	M. ROSSMANN	6/79 NO
THEOD	PRINT DIRECTORY OF TAPE CONTENTS	H. BERNSTEIN, F. BERNSTEIN	11/79 YES
TORSRU	MEASURE COORDINATES WITH THEODOLITE	L. LEBJODA	1/82 NO
TOTALS	COMPLETE TORSION ANGLES	G. REEKE	10/79 NO
	VALIDATION OF MASTER RECORD	L. ANDREWS, F. BERNSTEIN	3/82 YES
PART B - AVAILABLE ON PDBPGMTP			
ALB	SECONDARY STRUCT. CALC., PREDICTION A. FINKELSTEIN, O. PITTSYN		10/85 NO
CRYSTAL	DATA BASE - PROTEIN CRYSTALLIZATION G. GILLILAND		12/84 NO

* NEW OR REPLACEMENT ENTRY SINCE APR-86 NEWSLETTER

SUPPORTED PROGRAMS ARE THOSE FOR WHICH STAFF OF THE PROTEIN DATA BANK WILL PROVIDE CORRECTIONS FOR DEMONSTRATED ERRORS.

TABLE 4. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 1, SEE ALSO TABLES 5, 6, 7)

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
RIACTSF	ACTINININ	E. BAKER	7/77 SF
CHYMOF	ALPHA-CHYMOTRYPSIN (TOSYL)	D. BLOW	4/73 SF
RCARP04	CALCIUM-BINDING PARVALBUMIN	R. KRETSINGER	2/74 SF
RCARP05	CALCIUM-BINDING PARVALBUMIN	R. KRETSINGER	2/74 SF
RC55CF	CYTOCHROME B5	F. S. MATHEWS	12/77 SF
RC3YTSF	CYTOCHROME C (ALBACORE, OXIDIZED)	T. TAKANO, R. DICKERSON	7/80 SF
RC4YTSF	CYTOCHROME C (ALBACORE, REDUCED)	R. TIMKOVICH	4/76 SF
RCYC5D1	CYTOCHROME C550	H. DREW, R. DICKERSON	1/81 SF
R1ZNASF	DNA (A, D, 10DD-CCGG) SPACE GROUP P 21	H. DREW, R. DICKERSON	1/81 SF
R1BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC, 260 DEG K)	H. DREW, R. DICKERSON	1/81 SF
RGD04F	DNA (B, CGCGAATTCGG, SYNTHETIC, 16 DEG K)	M. ROSSMANN	8/75 SF
RGD05F	DNA (B, 9-BR-CGCGAATTCGG, 20 DEG C)	M. ROSSMANN	12/79 SF
RGD06F	DNA (B, 9-BR-CGCGAATTCGG, 7 DEG C)	M. ROSSMANN	12/79 SF
R2BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC) / C(SPLATIN)	LADNER, HEIDNER, PERUTZ	6/80 SF
R4BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC) / C(SPLATIN)	J. FRIER	6/80 SF
R5BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC) / C(SPLATIN)	M. PERUTZ, G. FERMI	5/75 SF
R1G6ASF	GLUTAMINASE-ASPARAGINASE (PSEUDOMONAS 7A)	HENDRICKSON, LOVE, KARLE	5/73 SF
R1HMO5F	HEMERYTHRIN (MET)	M. ROSSMANN	8/75 SF
R1HMO6F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO7F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO8F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO9F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO10F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO11F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO12F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO13F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO14F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO15F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO16F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO17F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO18F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO19F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO20F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO21F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO22F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO23F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO24F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO25F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO26F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO27F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO28F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO29F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO30F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO31F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO32F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO33F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO34F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO35F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO36F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO37F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO38F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO39F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO40F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO41F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO42F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO43F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO44F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO45F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO46F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO47F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO48F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO49F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO50F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO51F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO52F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO53F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO54F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO55F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO56F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO57F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO58F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO59F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO60F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO61F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO62F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO63F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO64F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO65F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO66F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO67F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO68F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO69F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO70F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO71F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO72F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO73F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO74F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO75F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO76F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO77F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO78F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO79F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO80F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO81F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO82F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO83F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO84F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO85F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO86F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO87F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO88F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO89F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO90F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO91F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO92F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO93F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO94F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO95F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO96F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO97F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO98F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO99F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF
R1HMO100F	HEMERYTHRIN (AZIDO, MET)	M. ROSSMANN	8/75 SF

CODES
SF STRUCTURE FACTORS

TABLE 5. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 2, SEE ALSO TABLES 4, 6, 7)

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
R1CCRSF	CYTOCHROME C (RICE)	H. OCHI, N. TANAKA	3/83 SF
R351CSF	CYTOCHROME C551 (OXIDIZED)	T. TAKANO, R. DICKERSON	9/81 SF
R451CSF	CYTOCHROME C551 (REDUCED)	T. TAKANO, R. DICKERSON	9/81 SF
R1ANASF	DNA (A, D, 10DD-CCGG) SPACE GROUP P 43 21 2	B. CONNER, R. DICKERSON	6/82 SF
R1ANAP2	DNA (A, D, 10DD-CCGG) SPACE GROUP P 21	B. CONNER, R. DICKERSON	6/82 SF
R2BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC, 16 DEG K)	H. DREW, R. DICKERSON	11/81 SF
R3BNASF	DNA (B, 9-BR-CGCGAATTCGG, 20 DEG C)	KOPKA, FRATINI, DICKERSON/82 SF	
R4BNASF	DNA (B, 9-BR-CGCGAATTCGG, 7 DEG C)	KOPKA, FRATINI, DICKERSON/82 SF	
R5BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC) / C(SPLATIN)	WING, P. JURA, DREW, DICKERSON	8/83 SF
R1GAASF	GLUTAMINASE-ASPARAGINASE (ACINETOBACTER)	H. AMMON	12/82 SF
R1G6ASF	GLUTAMINASE-ASPARAGINASE (PSEUDOMONAS 7A)	H. AMMON	12/82 SF
R1HMO5F	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R1HMO6F	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R21NS5F	INSULIN (BOVINE, 2-ZINC) DES-PHE B1	C. REYNOLDS, G. DODSON	5/82 SF
R1LH15F	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH15F	LEGHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH25F	LEGHEMOGLOBIN (AQUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH25F	LEGHEMOGLOBIN (AQUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH35F	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH35F	LEGHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH45F	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH45F	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH55F	LEGHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH55F	LEGHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH65F	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH65F	LEGHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH75F	LEGHEMOGLOBIN (FERRO) / NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	2/83 SF
R2LH75F	LEGHEMOGLOBIN (FERRO) / NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	2/83 SF
R1LYM5F	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	HOGLE, RAO, SUNDARALINGAM/78 SF	
R1MLT5F	MELITTIN	TERWILLIGER, EISENBERG	8/81 SF
R1OV05F	OVUMUCOID FRAGMENT (JAPANESE QUAIL)	E. PAPANIKOS, R. HUBER	1/81 SF

TABLE 8. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/STATUS	DEPOSITOR(S)	DATE/STATUS
44PE	*ACID PROTEININASE (ENDOTHELIA PARASITICA)	T. BLUNDELL	6/86 R		
2APP	ACID PROTEININASE (PENICILLIUM JANTHINELLUM)	A. SELECKI, M. JAMES	1/83		
1APR	ACID PROTEININASE (RHIZOPUS CHINENSIS)	D. DAVIES	8/79		
2ACT	ACTIN	E. BAKER	1/79		
1ACX	ACTINOXANTHIN	V. R. NEV, A. KUZIN	11/79		
2ADK	ADENYLATE KINASE (PORCINE MUSCLE)	G. SCHULZ	12/82		
1AGA	AGAROSE	S. WRIGHT	3/77		
3AG4	AGGLUTININ (WHEAT GERM)	C. -I. BRANDEN	8/79 R		
4ADH	ALCOHOL DEHYDROGENASE (APO)	E. ADAM, L. T. A. JONES	1/79		
5ADH	ALCOHOL DEHYDROGENASE (APO)/ADP-RIBOSE	H. EKLUND	1/84		
6ADH	ALCOHOL DEHYDROGENASE (Holo)/NADH/DMISO	H. EKLUND	1/84		
7ADH	ALCOHOL DEHYDROGENASE (ISONICOTINIMIDYLATED)	B. PLAPP, H. EKLUND	1/84		
2ALP	ALPHA-L-1-TRYPTOPHANE	M. FUJINAGA, M. JAMES	3/82 R		
2TAA	TAKA-AMYLASE	KUSUNOKI, MATSUURA, KAKUDO	10/84		
5AP1	ALPHA-1-ANTI-TRYPsin (MODIFIED, TETRAGONAL)	R. HUBER ET AL.	10/84		
6AP1	ALPHA-1-ANTI-TRYPsin (MODIFIED, HEXAGONAL)	R. HUBER ET AL.	10/84		
1ABP	*ARABINOSIDE-BINDING PROTEIN	F. QUICHO, G. GILLILAND	5/80		
1AAE	CYTOSOLIC ASPARTATE AMINOTRANSFERASE	HARUTYUNYAN, MALASHKEVICH	4/82 A		
2ATC	ASPARTATE CARBAMOYLTRANSFERASE	H. LIPSOMB	3/82		
4ATC	ASPARTATE CARBAMOYLTRANSFERASE	W. LIPSOMB	4/84		
5ATC	ASPARTATE CARBAMOYLTRANSFERASE/CTP	W. LIPSOMB	4/84		
1AZA	AZURIN (CALCIGENES DENITRIFICANS)	E. BAKER, G. NORRIS	5/84		
1AZU	AZURIN (PSEUDOMONAS AERUGINOSA)	R. KELLY, J. STEKER, L. JENSEN	8/80		
2BCL	BACTERIOCHLOROPHYLL A-PROTEIN	B. MATTHEWS	1/79 A		
2ABX	ALPHA-BUNGAROTOXIN	R. LOVE, R. STROUD	2/86 R		
1CPV	CALCIUM-BINDING PARVALBUMIN SET 6A	R. KRETSINGER	8/74		
2CPV	CALCIUM-BINDING PARVALBUMIN SET 6B	R. KRETSINGER	8/74		
3CPV	CALCIUM-BINDING PARVALBUMIN SET 6I	R. KRETSINGER	8/74		
21CB	CALCIUM-BINDING PROTEIN (INTESTINAL)	D. SZEBENYI, K. MOFFAT	12/85 R		
1CAP	CAPSULAR POLYSACCHARIDE (E. COLI MH1)	S. ARNOTT	5/78		
2CAP	CARBONIC ANHYDRASE B (HUMAN)	K. KANNAN	10/83		
1CAC	CARBONIC ANHYDRASE C (HUMAN)	K. KANNAN	5/76		
3CPA	CARBOXYPEPTIDASE A/GLYCYLTYROSINE	D. REES, N. LIPSOMB	3/82		
4CPA	CARBOXYPEPTIDASE A/POTATO INHIBITOR	D. REES, N. LIPSOMB	3/82		
5CPA	CARBOXYPEPTIDASE A/WATER (BOVINE)	D. REES, N. LIPSOMB	5/82		
1CPB	CARBOXYPEPTIDASE B (BOVINE)	M. SCHMID, J. HERRIOTT	6/76 A		
1FPE	D-ALANYL-CARBOXYPEPTIDASE-TRANSEPTIDASE	S. ARNOTT, Y. J. KNOX, P. MOEWS	10/85 A		
1CAR	CARRAGEENAN	S. ARNOTT	5/78		
7CAT	CATALASE (BEEF LIVER)	I. FITA, M. ROSSMANN	11/84 R		
8CAT	CATALASE (BEEF LIVER)	I. FITA, M. ROSSMANN	11/84 R		
4CAT	CATALASE (PENICILLIUM VITALE)	B. VAINShteIN ET AL.	2/83		
1CH5	CHONDROITIN-4-SULFATE	S. ARNOTT	5/78		
2CH5	CHONDROITIN-4-SULFATE (CA SALT)	S. ARNOTT	5/78		
2CHA	ALPHA-CHYMOTRYPsin (TOSYL)	D. BLOW	1/75		
4CHA	ALPHA-CHYMOTRYPsin (BOVINE)	R. BLUM, INS, T. LINSKY	11/84		
5CHA	ALPHA-CHYMOTRYPsin (BOVINE)	R. BLUM, INS, T. LINSKY	11/84		
2GCH	GAMMA-CHYMOTRYPsin	COHEN, DAVIES, ILLVERTON	1/85 R		
1OHG	CHYMOTRYPsinOGEN	J. KRAUT, J. BIRKTOFT	3/75		
1CT5	CITRATE SYNTHASE (PIG)	REMINGTON, WIEGAND, HUBER	1/84		
2CT5	CITRATE SYNTHASE (PIG, COA, CITRATE CPHX)	REMINGTON, WIEGAND, HUBER	1/84		
3CT5	CITRATE SYNTHASE (CHICKEN, COA, CITRATE)	REMINGTON, WIEGAND, HUBER	1/84		
4CT5	CITRATE SYNTHASE (PIG, OXALOACETATE CPHX)	REMINGTON, WIEGAND, HUBER	1/84		
1CTX	ALPHA COBRATOXIN	W. SAENGER, M. HALKINSHAW	3/82		
2CNA	CONCANAVALIN A	G. REEKE, J. BECKER, G. EDELMAN	4/75		
3CNA	CONCANAVALIN A	K. HARDMAN	9/76		
1CN1	CONCANAVALIN A (DEMETALLIZED)	M. SHOHAM	12/81		
1CRN	CRAMPIN	W. HENDRICKSON, M. TEETER	5/81		
1GCR	GAMMA-CRYSTALLIN (CALF)	T. BLUNDELL	8/85		
2B5C	CYTOCHROME B5 (OXIDIZED)	F. S. MATHEWS	12/77		
15B6	CYTOCHROME B5B2 (E. COLI, OXIDIZED)	BETHGE, CZERNINSKI, MATHEWS	7/80		
3CYT	CYTOCHROME C (ALBACORE, OXIDIZED)	T. TAKANO, R. DICKERSON	7/80		
4CYT	CYTOCHROME C (ALBACORE, REDUCED)	T. TAKANO, R. DICKERSON	7/80		
1CYC	CYTOCHROME C (RIBBIT, HEART)	H. OCHI, N. TANAKA	8/76		
1CCR	CYTOCHROME C (PRIME)	M. KAKUDO	8/85 R		
2CYP	CYTOCHROME C (PEROXIDASE (YEAST))	B. FINZEL, E. L.	3/85 R		
2CC2	CYTOCHROME C2 (OXIDIZED)	G. BHATIA, B. FINZEL, J. KRAUT	11/83		
3CC2	CYTOCHROME C2 (REDUCED)	G. BHATIA, B. FINZEL, J. KRAUT	11/83		
1CY3	CYTOCHROME C3	R. HAGER, M. FREY, F. PAVAN	6/85		
2CDV	CYTOCHROME C3 (DESULFOVIBRIO VULGARIS)	N. YASUKO, M. KAKUDO	11/83		
1CC5	CYTOCHROME C5 (OXIDIZED, AZOTOBACTER VULC.)	D. STOUT, D. CARTER	8/84		
155C	CYTOCHROME C5 (REDUCED)	R. TIMKOVICH	7/81		
351C	CYTOCHROME C5B1 (OXIDIZED)	MATSUURA, TAKANO, DICKERSON	8/76		
451C	CYTOCHROME C5B1 (REDUCED)	MATSUURA, TAKANO, DICKERSON	8/76		
1CPY	CYTOCHROME P450 (CAM, PSEUDOMONAS PUTIDA)	T. POULOS ET AL.	11/85		
3DFR	DIHYDROFLATE REDUCTASE (L. CASE 1)	J. BOLIN, D. MATTHEWS, J. KRAUT	6/82		
4DFR	DIHYDROFLATE REDUCTASE (E. COLI 1)	B. CONNER, R. DICKERSON	6/82		
1ANA	DNA (A, 5-PRIME)-D-1000-CGG-3-PRIME)	M. MCCALL, T. BROUN, O. KENNARD	6/82		
2DNA	DNA (A, GGGGGCC, SYNTHETIC)	H. DREW, R. DICKERSON	1/81		
18NA	DNA (B, CGCGAATTCGG, SYNTHETIC, 290 DEG K)	H. DREW, R. DICKERSON	11/81		
28NA	DNA (B, CGCGAATTCGG, SYNTHETIC, 16 DEG K)	H. DREW, R. DICKERSON	2/82		
38NA	DNA (B, BR-CGGCAATTCGG, SYNTH, 7 DEG C)	KOPKA, FRATINI, DICKERSON	2/82		
48NA	DNA (B, BR-CGGCAATTCGG, SYNTH, 7 DEG C)	KOPKA, FRATINI, DICKERSON	2/82		
58NA	DNA (B, CGCGAATTCGG, SYNTHETIC)/CISPLATIN	WING, PUURA, DREH, DICKERSON	8/83		
68NA	DNA (B, 9-BR-CGGCAATTCGG, SYNTH)/NETROSPIN	H. DREW, R. DICKERSON	8/84		
18NA	DNA (B, CGCGAATTCGG, ANISO TEMP FACTORS)	HOLBROOK, DICKERSON, KIM	1/85		
1ZNA	DNA (Z, CGCG, HIGH-TEMP, SYNTHETIC)	G. BRAYER, A. MCPHERSON	1/85		
2GNS	GENE-5 DNA BINDING PROTEIN	H. WATSON	5/76		
1EST	ELASTASE (PORCINE, TOSYL)	L. SIEKER, D. HUGHES	3/85		
2EST	ELASTASE-TFAP COMPLEX (PORCINE)	B. LOK	9/85		
2E3X	ERABUTOXIN B (SEA SNAKE)	W. STEIGEMANN, E. WEBER	3/79		
1ECD	ERYTHROCYRORIN (REDUCED, DEOXY)	W. STEIGEMANN, E. WEBER	3/79		
1ECO	ERYTHROCYRORIN (CARBONMONOXY)	W. STEIGEMANN, E. WEBER	3/79		
1ECA	ERYTHROCYRORIN (AQUO, MET)	W. STEIGEMANN, E. WEBER	3/79		
1ECN	ERYTHROCYRORIN (CYANO, MET)	W. STEIGEMANN, E. WEBER	3/79		
2FD1	FERRIDOXIN (AZOTOBACTER VINELANDII)	K. STOUT, G. HOSH, FUREY, ODOONELLI	11/81		
1FDX	FERRIDOXIN (PEPTOCOCCUS AEROGENS)	E. ADAM, L. SIEKER, L. JENSEN	8/76		
3FXC	FERRIDOXIN (SPIRULINA PLATENSIS)	TSUKIHARA, KATSUBE, KAKUDO	12/81		
3FXN	FLAVODOXIN (CLOSTRIDIUM PF, OXIDIZED)	M. LUDWIG	12/77		
4FXN	FLAVODOXIN (CLOSTRIDIUM PF, SEMIQUINONE)	M. LUDWIG	12/77		
1FX1	FLAVODOXIN (D. VULGARIS, UNREFINED)	HATENPAUGH, SIEKER, JENSEN	10/84		
1G6P	GALACTOSE-BINDING PROTEIN	S. MOHRA, G. PETSKO	8/83 A		
1GAP	*CATABOLITE GENE ACTIVATOR PROTEIN/CAMP	J. WEBER, T. STEITZ	3/86		
2GAP	*CATABOLITE GENE ACTIVATOR PTV/(ANO MODEL)	J. WEBER, T. STEITZ	3/86		
1GCN	GLUCAGON	T. BLUNDELL	10/77		
1GP1	GLUCOSE-6-PHOSPHATE ISOMERASE	H. MUIRHEAD	7/77 A		
1GP1	GLUTATHIONE PEROXIDASE (BOVINE)	O. EPP, R. LADENSTEIN	6/85		
2GRS	GLUTATHIONE REDUCTASE (HUMAN)	G. SCHULZ	11/81		
1GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (LOBSTR)	H. ROSSMANN	7/75		
2GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE	H. ROSSMANN	12/79		
3GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (HUMAN)	H. WATSON, J. CAMPBELL	6/83		
1H8Y	HEMERYTHRIN B	W. HENDRICKSON	6/76 A		
1H9D	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83		
1H9Z	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83		
1H93	HEMERYTHRIN (AZIDO, MET, SIPHONOSOMA)	SMITH, HENDRICKSON, ADDISON	6/83		
1HDS	HEMOGLOBIN (DEER, SICKLE CELL)	E. AMMA, R. GIRLING	10/79		
2H4B	HEMOGLOBIN (HORSE, AQUO MET)	R. LADNER, HEIDNER, PERUTZ	2/77		
2H4B	HEMOGLOBIN (HORSE, DEOXY)	M. PERUTZ, G. FERMI	11/73		
2H4B	HEMOGLOBIN (HUMAN, DEOXY)	G. FERMI, M. PERUTZ	3/84 R		
3H4B	HEMOGLOBIN (HUMAN, DEOXY, SYMMETRY AVRGD)	G. FERMI, M. PERUTZ	3/84 R		
4H4B	HEMOGLOBIN (HUMAN, DEOXY, UNRESTRAINED)	G. FERMI, M. PERUTZ	3/84 R		
1HCO	HEMOGLOBIN (HUMAN, CARBONMONOXY)	J. BALDWIN	8/79		
2HCO	HEMOGLOBIN (HUMAN, CARBONMONOXY)	J. BALDWIN	8/79		
1H4O	HEMOGLOBIN (HUMAN, OXY)	B. SHANAN	8/76		
1FDH	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J. FRIER	8/79		
1HBS	HEMOGLOBIN S (HUMAN, SICKLE CELL)	E. PADLAN, W. LOVE	6/82		
2H8B	HEMOGLOBIN V (CYANIDE, MET, SEA LAMPREY)	HONZATKO, HENDRICKSON, LOVE	8/85 R		
2YHX	HEXOKINASE (YEAST) FORM B111	S. TEITZ, ANDERSON, STENKAMP	3/78		
1HKP	HEXOKINASE A - GLUCOSE COMPLEX (YEAST)	W. BENNETT JR., T. STEITZ	12/80		
1H1G	HIGH POTENTIAL IRON PROTEIN	J. KRAUT	4/75		
1HYA	HYALURONIC ACID (NA SALT, 3-FOLD HELIX)	S. ARNOTT	11/77		
2HYA	HYALURONIC ACID (NA SALT, 4-FOLD HELIX)	S. ARNOTT	5/78		
3HYA	HYALURONIC ACID (NA SALT, 2-FOLD HELIX)	S. ARNOTT	5/78		
4HYA	HYALURONIC ACID (CA SALT, 3-FOLD HELIX)	S. ARNOTT	5/78		
1G1A	IGA FAB (KAPPA) J538	T. BHAT, D. DAVIES ET AL.	6/86		
1MCP	IGA FAB (KAPPA) MCPP603	SATOH, COHEN, PADLAN, DAVIES	7/84		
2MCP	IGA FAB (KAPPA) MCPP603/PHOSPHOCHOLINE	E. PADLAN, G. COHEN, D. DAVIES	10/84		
1F84	IMMUNOGLOBULIN FAB (LAMBDA) KOL	M. MARQUART, R. HUBER	5/83		
3FAB	IMMUNOGLOBULIN FAB, PRIME, NEW	R. POLJAK	9/78		
1RE1	IMMUNOGLOBULIN B-J FRAGMENT (V-DIMER) RE1	SCHIFFER, EDMUNDSON ET AL.	5/81 A		
2RHE	IMMUNOGLOBULIN B-J FRAGMENT (V-NMMER) RHE	FUREY, HANG, YOO, SAX	3/76		
1FC1	IMMUNOGLOBULIN FC (HUMAN)	J. DEISENHOFER	5/81		
1FC2	IMMUNOGLOBULIN FC-FRAGMENT B COMPLEX	J. DEISENHOFER	5/81		
1PFC	IGG F1c	L. M. HUGHES	10/81		
1IG2	IMMUNOGLOBULIN G1 (LAMBDA) KOL	R. BOHR, R. HUBER	5/81		
1IN5	INSULIN (PORCINE, 2-ZINC)	G. DOODSON, D. HODGKIN	3/80		
2IN5	INSULIN (BOVINE, 2-ZINC) DES-PHE B1	C. REYNOLDS, G. DOODSON	5/82		
2KAI	KALLIKREIN A (PORCINE)/PTI (BOVINE)	W. BODE, Z. CHEN	5/84		
1KGA	KDGP ALDOLASE	A. TULINSKY	5/84		
1KES	KERATAN SULFATE	S. ARNOTT	5/78		
4LDH	LACTATE DEHYDROGENASE (DOGFISH)	W. EVENTOFF, M. ROSSMANN	4/77		
1LDH	LACTATE DEHYDROGENASE (HUMAN)	M. ROSSMANN	11/74		
5LDH	LACTATE DEHYDROGENASE (S-LAC-NAD (PIG))	H. ROSSMANN	10/80		
1LDX	LACTATE DEHYDROGENASE (MUSCLE TESTES)	H. MUSICK, M. ROSSMANN	9/78		
1LH1	LEGHEMOGLOBIN (ACETATE MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH2	LEGHEMOGLOBIN (ACETATE MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH2	LEGHEMOGLOBIN (AQUO MET)	VAINShteIN, HARUTYUNYAN	4/82		
2LH2	LEGHEMOGLOBIN (AQUO MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH3	LEGHEMOGLOBIN (CYANO MET)	VAINShteIN, HARUTYUNYAN	4/82		
2LH3	LEGHEMOGLOBIN (CYANO MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH4	LEGHEMOGLOBIN (DEOXY)	VAINShteIN, HARUTYUNYAN	4/82		
2LH4	LEGHEMOGLOBIN (DEOXY)	VAINShteIN, HARUTYUNYAN	4/82		
1LH5	LEGHEMOGLOBIN (FLUORO MET)	VAINShteIN, HARUTYUNYAN	4/82		
2LH5	LEGHEMOGLOBIN (FLUORO MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH6	LEGHEMOGLOBIN (NICOTINATE MET)	VAINShteIN, HARUTYUNYAN	4/82		
2LH6	LEGHEMOGLOBIN (NICOTINATE MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH7	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINShteIN, HARUTYUNYAN	4/82		
2LH7	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINShteIN, HARUTYUNYAN	4/82		
1LZ1	LYSOZYME (BACTERIOPHAGE T4)	B. MATTHEWS	3/77		
1LY2	LYSOZYME (HEN EGG-WHITE, SET R5D)	R. DIAMOND, D. PHILLIPS	2/75		
2LY2	LYSOZYME (HEN EGG-WHITE, SET R5D)	R. DIAMOND, D. PHILLIPS	2/75		
3LY2	LYSOZYME (HEN EGG-WHITE, SET R5A)	R. DIAMOND, D. PHILLIPS	2/75		
4LY2	LYSOZYME (HEN EGG-WHITE, SET R5A)	R. DIAMOND, D. PHILLIPS	2/75		
5LY2	LYSOZYME (HEN EGG-WHITE, SET R5I2A)</				

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() Sources of Visual Aids for Macromolecular Structure (October 1985)
() Atomic Coordinate and Bibliographic Entry Format Description for
DATAPRTP and DATAPRFI (January 1985)
() Current DATAPRTP Directory
() Non-Standard Entries (Structure Factors) Format Description
() Data Deposition form

3. Please send the following magnetic tape items (from Table 1).

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	() 1600 cpi, ASCII, \$260	() 1600 cpi, EBCDIC, \$260
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	() 800 cpi, ASCII, \$220	() 800 cpi, EBCDIC, \$220
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	() 1600 cpi, ASCII, \$220	
	() 800 cpi, ASCII, \$220	
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	() 1600 cpi, ASCII, \$220	() 1600 cpi, EBCDIC, \$220
	() 800 cpi, ASCII, \$260	() 800 cpi, EBCDIC, \$260
NONST2TP	() 6250 cpi, ASCII, \$220	() 6250 cpi, EBCDIC, \$220
	() 1600 cpi, ASCII, \$220	() 1600 cpi, EBCDIC, \$220
	() 800 cpi, ASCII, \$260	() 800 cpi, EBCDIC, \$260
NONST3TP	() 6250 cpi, ASCII, \$220	() 6250 cpi, EBCDIC, \$220
	() 1600 cpi, ASCII, \$220	() 1600 cpi, EBCDIC, \$220
	() 800 cpi, ASCII, \$260	() 800 cpi, EBCDIC, \$260
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	() 1600 cpi, ASCII, \$220	() 1600 cpi, EBCDIC, \$220
	() 800 cpi, ASCII, \$220	() 800 cpi, EBCDIC, \$220
BENDEKTP	() 6250 cpi, ASCII, \$220	() 6250 cpi, EBCDIC, \$220
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	() 800 cpi, ASCII, \$220	() 800 cpi, EBCDIC, \$220
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