

Summary of Computer Resource Usage
April 16, 1972 - April 16, 1973

*COR = Core Research and Development
C = Collaborative
S = Service
T = Training

INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	DIRECT GRANT OR CONTRACT SUPPORT		BATCH	AMOUNT OF USAGE			
					Current Annual Amt.	BRR Cate- gory*		Minutes	Terminal Access Hours	PageMinutes (K)	Block Storage(K) (Block=2K Bytes)
Baron, Virginia (J. Lederberg)	Genetics	NAME: Computer control of flammigan 1015 quadrupole mass spectrometer	NGR004	NASA	\$ 180,000	C		573.5	702.158	@ \$.01 per page minute	30.850
Baumenberg, Edward	Chemistry	CHRM: Development of a magnetic circular dichroism biotechnology resource.	---	Dept. Funds	---	S		.1	.555		1.240
Constantinou, Christos	Urology	UHOL: Investigation of upper urinary tract physiology.	AMD3548	NIH	63,962	C		191.0	72.853		2.218
DeRazis, Joseph	Nuclear Medicine	RADIORM: Development of radiolotope techniques for the evaluation of differential kidney function.	---	Pub. Health S.F. Hosp.	---	S		0.0	0.0		.016
DeRazis, Joseph	Nuclear Medicine	CLINIGAS: Coordination of computer and metabolic gas analyzer.	NGR578	NASA	40,131	S		162.1	96.792		3.242
Long, Eugene	Cardiovas- cular Surg.	PATIENT: Examination of cardiac surgery patient data.	---	Clinic Budget	---	S		591.8	391.994		21.148
Long, Eugene	Cardiovas- cular Surg.	CLIN: General data reduction.	HE13108	NIH	329,360	S		20.6	14.149		4.349
Long, Eugene	Cardiovas- cular Surg.	LAR: Study of the principles of mam- malian heart rate control, emphasis on sino-atrial node.	HE08696	NIH	152,535	C		161.4	102.392		12.181
Feigenbaum, Edward	Computer Science	PERMRA: Mass spectra analysis and interpretation.	RR00612	NIH	260,999	C		881.7	1110.056		26.635
Hersey, Will	Neurology	GYMNASI: Application of time series methods to problems in neurophysio- logy and medicine.	---	Dept. Funds	---	S		6.9	6.754		0.889
Slick, David	Pathology	LASER: Laser microprobe analytical system for elemental analysis of microscopic biological samples.	GM16181	NIH	137,793	S		421.6	228.342		5.356
Sold, Jerome	Diagnostic	SMALLOW: Esophageal blood flow studies.	GM01707	NIH	135,000	C		286.7	126.336		28.819
Green, Paul	Biosciences	AVENA: Kinetic analysis of hormones affecting the growth process.	GR28667	NSF	90,000	S		92.2	92.470		2.798
Hasegawa, Phillip	Biosciences	TRI CARB: Use of radiolabeled tracers to study molecular biology of cell growth and repair of damage to genetic material.	GM09901	NIH	96,986	S		121.3	73.676		2.063
Harrison, Donald	Cardiology	CATH LAB: On-line cardiac catheteri- zation data analysis; recognition of abnormal EKG complexes.	LM00152	NIH	91,641	C		154.5	37.323		5.670
Katits, Leslie	Anesthesia	VISABP: Visual average evoked potential to graded light intensity as a correlation of pain threshold.	---	Dept. Funds	---	S		.1	0.140		0.420
Kopell, Bert	Psychiatry	ICON: Study of AER's (Averaged Evoked Responses) in EEG's.	MA00498	NSMHA	718,697	S		0.0	0.0		0.030

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INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	DIRECT GRANT OR CONTRACT SUPPORT				BRR Cate- gory*	AMOUNT OF USAGE				Category 1 (cont'd.)	Realtime, Sponsored Research (CHARGEABLE)
			Identifying Number	Agency	Annual Amt.	Minutes		Terminal Access Hours	Page/minutes (K)	Block Storage(K) (Block=2K Bytes)			
											BATCH		
Kristany, William	Biosciences	DEPERK: Analog/digital processing of nerve impulses from swimming leech; study of nervous control of movement.	NS09744	NIH	64,983	S		6.6	2,705	③ \$.01 per page/minute	③ \$.10 per block		
Lederberg, Joshua	Genetics	EXPT: Use of a Packard liquid scintillation counter to analyze the incorporation of radiolabeled amino acids into brain.	GM00295	NIH	153,727	S		144.9	89,266				
Mazze, Richard	Anesthesia	RENN: Study of renal failure following general anesthesia.	GM18514	NIH	61,166	S		268.1	147,607				
Pauling, Linus	Chemistry	MENTRES: Research on the molecular basis of mental disease, involving gas chromatography.	GM19156	NIH	153,014	S		25.1	9,367				
Reynolds, Walter	Genetics	COOT: Automation of mass spectro-meter instrumentation system.	NGR004	NASA	180,000	S		4.9	0.586				
Pott, Walton	Psychiatry	ARR: Research into computer processing of EEG data.	AA00498	HSMVA	718,697	S		139.2	43,924				
Simples, John	Otolaryngo- logy	SPECHPA: Analysis of speech pauses during reading in normal and aphasic children.	NS07514	NIH	157,136	S		6.4	1,950				
Cuthrie, Harvey	Psychiatry	SLEEP: Analysis of data from all-night sleep EEG's.	NS10727	NIH	239,937	S		22.8	5,985				
Sokolov, Phillip	Biosciences	CIRCHITHM: Study of role of central nervous system in production and maintenance of circadian rhythm.	GM00365	NIH	53,088	S		0.5	0.170				
Stussman, Howard	Pathology	LAB-PAT/LABSYSO: Development of an automated data processing system for the clinical pathology laboratory of Stanford Hospital.	---	Hosp. Funds	---	C		563.1	357,711				
Swanson, George	Anesthesia	REMPRE: Investigation of neural mechanisms which sustain ventilation in the absence of chemical stimulation.	GM12527	NIH	503,159	S		42.1	23,471				
Tatton, William	Biosciences	DEPERK: Characterization of neural circuits underlying behavior in mammals and invertebrates.	NS09744	NIH	64,983	S		132.3	62,757				
Angel, Ronald	Palo Alto Veterans Hospital	FORCE: Study of neural mechanisms controlling posture and movement in humans.	---	PAVAH	---	S		0.0	0.0	③ \$.017 per page/minute	③ \$.10 per block		
Arnow, Louis	Pharmacology	LCCEL: Laboratory calculation of mechanisms of anti-cancer drug action.	CA05672	NIH	52,491	S		5.9	5,555				

SUMMARY OF COMPUTER RESOURCE USAGE
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INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.	BRR Cate- gory*	AMOUNT OF USAGE			Category 2 (cont'd.)	Non-Realtime, Sponsored Research (CHARGEABLE)
							BATCH	Minutes	Terminal Access Hours		
Assay/Keen, Patricia	Med. School	FLYHIGH: Aid to Admissions Committee in selecting new medical school classes from applicants.	---	Dept. Funds	---	S	18.6	3.834	0.373		
Atkinson, Martha	Med. School	MATCHES: Matching of medical students' clerkship requests with available positions.	---	Dept. Funds	---	S	0.0	0.0	0.034		
Atkinson, Martha	Med. School	FINANCE: Examination of Yale medical student loan system's applicability to Stanford.	---	Dept. Funds	---	S	18.3	10.931	0.048		
Austin, Melissa	Anesthesia	IDM: Institutional Differences Study of post-operative procedures and results in hospitals nationwide.	MS46-72-12	N Acad Scl.	574, 279	S	9.5	9.125	2.432		
Axline, Stanton	Medicine	LYSOSOMES: Analysis of kinetics of protein turnover by tissue culture cells.	A110055	NIH	33, 303	S	0.0	0.0	0.024		
Fazekas, Malcolm	Radiation Therapy	SUMMARY: Patient data storage and information retrieval; statistical programs relating to radiation dosimetry.	CA05838	NIH	1, 012, 612	S	843.8	540.040	38.218		
Bale, Richard	Psychiatry	VADUGSA: Comparative evaluation of drug abuse treatment programs.	MH2853	HSMHA	250, 515	S	0.0	0.0	0.008		
Belt, Donald	Otolaryngol- ogy	HSA: Hearing and vision screening; processing of results of tests administered to elementary school children.	---	Dept. Funds	---	S	37.8	67.664	4.836		
Belt, Donald	Otolaryngol- ogy	SEC: Vision screening programs.	---	Dept. Funds	---	S	0.0	0.0	0.002		
Biggs, Suzanne	Pharmacology	REKRESS: Analysis of membrane proteins.	GM00322	NIH	157, 551	S	1.2	0.652	0.275		
Blake, David	Community and Preventive	AIR-POL: Student study of correlation between incidence of air pollution and respiratory disease.	GY9654	NSP	12, 790	S	16.6	5.541	0.042		
Podner, Walter	Genetics	POPCEN: Human white blood cells and population genetics.	NS10711	NIH	93, 336	S	6.8	5.722	0.888		
Brown, Byron	BioStatistics	RESEARCH: Computations in support of development of new biostatistical techniques.	HR05353	NIH	133, 817	S	11.9	5.038	2.017		
Brown, Byron	Anesthesia	MAASS: Measurement of frequency of surgery in various socioeconomic groups.	---	Comm. Weal.	---	S	93.0	32.373	2.806		
Brown, Byron	BioStatistics	BIOSTAT: Computations in support of Dept. of Anesthesia research projects.	GM12527	NIH	503, 159	S	44.0	15.052	2.200		

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								Terminal Access	Hours	Page/minutes (K)		
								Block Storage(K) (Block=2K Bytes)	TIME SHARING			
3 \$.10 per block												
Brown, Byron	Biostatistics	STUDENT: Teaching use of ACME in Community and Preventive Medicine courses.	RR05353	NIH	133,817	T		26.5	7.062	0.307		
Brown, Byron	Biostatistics	CLASS: Classwork for course in biostatistics.	RR05353	NIH	133,817	T		56.6	29.804	5.744		
Brown, Byron	Biostatistics	CONSULT: Biostatistical computations in support of many medical research projects.	RR05353	NIH	133,817	S		146.0	52.158	5.946		
Brown, Byron	Anesthesia	JOBST: Analysis of EKG data.	HL10202	NIH	158,349	S		52.1	22.352	5.335		
Frutkin, Douglas	Biochemistry	ULTPA: Studies of the role of divalent metal ions in the reaction mechanism of the enzyme DNA poly- merase.	GM07591	NIH	313,398	S		1.3	1.084	0.134		
Eucham, Bruce	Computer Science	DESERAL: Mass spectre analysis and interpretation.	RR00612	NIH	260,999	C	6,976	378.3	305.966	35.437		
Eucham, Bruce	Computer Science	STAT: Statistical demonstration programs for a course in biostatistics.	GM01922	NIH	301,996	T		201.6	100.213	0.723		
Eumenberg, Edward	Chemistry	CHRM: Development of a magnetic circular dichroism biotechnology resource.	---	Dept. Funds	---	S		51.2	20.143	1.174		
Futler, Edmund	Urology	UROSTAT: Urology operative statis- tics information and retrieval program.	---	Dept. Funds	---	S		5.0	5.014	0.381		
Camp, Howard	Pediatrics	GUAT: Population genetics studies of Mayan Indians of Guatemala.	GM15593	NIH	21,668	S		250.9	102.842	22.374		
Cavalli, Luca	Genetics	LAPPA: Data analysis on population genetics.	AT(04-3) 326PA332	AEC	32,000	S		129.9	72.586	3.130		
Cavalli, Luca	Genetics	MAK: Analysis of PYGM anthropo- metric and demographic data; stimulation of genetic drift and selection models.	AT(04-3) 326PA332	AEC	32,000	S		0.1	0.010	0.003		
Cavalli, Luca	Genetics	PAVIA: Population genetics: evolu- tionary rate, patterns of inheri- tance in behavioral traits, analysis of record linkage and pedigree information.	AT(04-3) 326PA332	AEC	32,000	S		291.2	155.782	1.787		
Cavalli, Luca	Genetics	JUDY: Text editing for population genetics research.	AT(04-3) 326PA332	AEC	32,000	S		0.0	0.011	0.018		
Cavalli, Luca	Genetics	KEM: Analysis of genetic models of diseases; stimulation programs.	AT(04-3) 326PA332	AEC	32,000	S		11.8	3.185	0.228		
Chang, Pin Chu	Radiobiology	GROWTH: Stimulation of cellular population growth pattern.	CA04542	NIH	34,928	S		18.6	8.653	0.252		

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Chase, Robert	Surgery	CROFAC: Evaluation of facial growth in cleft palate children and determination of velopharyngeal competence.	DE02803	NIH	31,434	S	0.0	0.0	9.720	0.0	0.516	0.512	1.230	55.888	0.793	0.576	0.166	CYTOTOX: Study of murine trans-plantation antigens on various tissues; description of biological and biochemical characteristics of the soluble transplantations from these tissues.	MH19918	HSMHA	S	0.1	45.9	13.596	0.428	0.371	0.156	0.033	0.640	0.204	0.000	0.034	Forrest, William	Anesthesia	DATA: Development of an inexpensive system of quality and quantity control of large amounts of clinical data.	---	Dept. Funds	---	S	0.0	0.0	0.034	0.000	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.

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Category 2 (cont'd.)	Non-Realtime	Sponsored Research (CHARGEABLE)					@ \$50/hr		@ \$0.17 per page/minute	@ \$1.10 per block
Forrest, William	Anesthesia	SURGICAL: Maintenance of records on surgical operations; source of data for reports on these operations.	---	PAVAH	---	S	33.9	19.547	38.956	25.488
Forrest, William	Anesthesia	ANALGESIC: Development of an inexpensive system of quality and quantity control of large amounts of clinical data.	GMD2527	NIH	503,159	S	101.3			
Forkes, William	Regional Medical Program	ANALYSIS: Analysis of data from registry of stroke patients.	CCRMP	CCRMP	50,517	S	20.3			
Forkes, William	Regional Medical Program	STROKE: Development of a countywide registry for stroke patients in Santa Cruz County; development of a population base for study and analysis.	CCRMP	CCRMP	50,517	S	17.7			
Freestier, John	Oncology	DEPRESS: Leukemia research; probes of nuclear chromatin in living human bone marrow cells to determine their activity in gene de-repression.	CA10174	NIH	38,129	S	0.6			
Fries, James	Immunology	DATABANK: Establishment of a large clinical databank of time-oriented patient records; exploration of multiple uses of the stored information.	A111313	NIH	207,553	C	345.1	152.274		
Jaret, John	Ophthalmol- ogy	EPIDEM: Storage of patient data for Division of Ophthalmology.	---	Dept. Funds	---	S	0.0			
Goldstein, Avram	Pharmacology	NARCO: Mechanism of the action of narcotics and the fundamental aspects of narcotic addiction.	DA00086	HSMHA	207,462	S	21.3			
Goldstein, Avram	Pharmacology	OPESITUFF: Study of methadone maintenance programs for heroin addicts.	MH18960	HSMHA	38,680	S	349.9	183.642		
Goldstein, Tora	Pharmacology	RAPP: Establishment of essential parameters for enzyme kinetics in inhibition of flavin enzymes by barbiturates.	DA00249	HSMHA	380,203	S	92.8			
Grant, Scott	Ophthalmol- ogy	COMTEA: Simulation of light scattering by the cornea using electromagnetic theory.	EY00431	NIH	181,988	S	5.2			
Greenberg, Peter	Hematology	CCPASBAY: Evaluation of factors regulating granulopoiesis in human disease states.	CA13141	NIH	55,959	S	48.9			
Jess, Harry	Mathematics	EVOL: Genetics research; model simulation using various values of mutation rate; population size and mutant fitness distribution.	GMD452	NIH	91,670	S	2.6			

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Hahn, George	Radiobiology	PADIATE: Stimulation of kinetics of mammalian cell proliferation, design of theoretical dose scheduling for leukemia treatment.	CA04542	NIH	34,928	S	10.7	84.2	19.851	1.458	1.307	1.307	Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	1.307	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352																																						
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
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Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology	CHEMOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157,551	S	43.4	13.767	34.725	1.352	Lyce, Steve	Ophthalmol-ogy	EPTHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	NIH	69,171	S	67.4	34.725	1.352
Harburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MHI3032	HSMHA	66,438	S	84.2	19.851	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Hannigan, John	Drew Health Center	DREWVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	---	Drew Med. Clinic	---	20.8	17.109	91.426	1.458	9.138	22.045	60.3	---	S	313,398	0.0	10.214	11.047	0.040	54.902	134.1	67.4	34.725	1.352	Kallman, Robert	Radiobiology	SURVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	NIH	10,220	S	0.0	0.040	54.902	134.1	67.4	34.725	1.352	Kessler, Seymour	Psychiatry	MATSPERD: Analysis of mating speed experiments.	GB31099	NSF	52,000	S	10.9	3.463	13.767	34.725	1.352	Kinsaid, Randy	Pharmacology</																			

SUMMARY OF COMMITTEE RESOURCE USAGE

April 17, 1972 - April 16, 1973

*Cor = Core Research and Development
C = Collaborative
S = Service
I = Training

INVESTIGATOR		DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.	BRR Cate- gory*	Minutes	Terminal Access Hours	Page/minutes (K)	Block Storage(K) (Block=2K Bytes)
AMOUNT OF USAGE											
TIME SHARING											
BATCH											
Category 2 (cont'd.)		Non-Realtime,	Sponsored Research (CHARGEABLE)								
Kraemer, Helena	Psychiatry	POVSAT: Analysis of data from various psychiatric research projects.	---	Dept. Funds	---	S		94.5	34.729	34.017 per page/minute	6.330
Kris, Joseph	Nuclear Medicine	ASCAV: Studies on the pathogenesis of Graves' disease, the effects of X-ray therapy on thyroid function, and the pathogenesis of other endocrine disorders associated with autoimmunity.	AM07642	NIH	62,838	S		135.8	45.067		1.840
Kris, Joseph	Nuclear Medicine	BIMVOL: Calculation of plasma volume, blood volume, red cell mass, red cell life span, iron turnover and renal clearance in patients who receive radioactive tracer material.	AM07642	NIH	62,838	S		0.2	0.048		0.048
Leahy, Emmett	Gyn/Ob	EXPRES: Calculation of relative potency and confidence limits of total gonadotropin activity of human urine extracts.	---	Dept. Funds	---	S		62.8	33.252		0.648
Leiferberg, Marguerite	Pediatrics	MACE: Study of women MD's: socio-economic and family impact on their careers.	---	Dept. Funds	---	S		0.0	0.0		0.014
Letoury, I. Robert	Biochemistry	ITVARS: Studies of the enzymatic mechanism of the DNA ligase of E. coli.	GM06196	NIH	140,812	S		26.2	8.224		0.214
Leiderman, P. Herbert	Psychiatry	PERFE: Study of human maternal behavior relating the degree of interaction between mother and infant in the post-partum period to later maternal attachment and infant development.	---	Grant Fdn.	10,000	S		24.3	9.564		1.222
Leiderman, P. Herbert	Psychiatry	HEMIVA: Analysis of data collected in Kenya relating the effect of social structure of primary family on infants' social attachments in the first year of life.	RM05353	NIH	133,817	S		54.8	18.864		4.034
Lucas, Zoltan	Surgery	KITRANS: Tabulation of survival data for renal transplant patients.	---	Dept. Funds	---	S		2.4	1.167		1.301
Luetscher, John	Metabolism	BIMOD RM: Secretion and metabolism of adrenal hormones; identification of curable forms of hypertension.	HE13917	NIH	81,189	S		129.6	38.328		2.194
Maffly, Roy	Metabolism	COM: Sodium transport; predictive value of tests for blood urea nitrogen and decreased serum sodium concentration.	AM16327	NIH	46,757	S		98.1	40.664		1.072
Maffly, Roy	Metabolism	TEACH: Teaching programs for students and staff; evaluation of patients' acid-base disorders; displayed on Beehive terminal and projected onto large screen for class use.	---	Dept. Funds	---	T		264.5	228.115		7.930

SUMMARY OF COMPUTER RESOURCE USAGE

April 17, 1978 - April 16, 1973

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INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	DIRECT GRANT OR CONTRACT SUPPORT			BRR Cate- gory*	Batch	AMOUNT OF USAGE			Category 2 (cont'd.)	Non-Realtime, Sponsored Research (MUSGRAVES)
				Agency	Current Annual Amt.	Terminal Access			Hours	Page/minutes (K)	Block Storage (K) (Block=2K Bytes)		
Waffly, Roy	Metabolism	SERUM: Analysis of blood serum electrolytes from ion-specific electrodes.	72875	Am. Heart		63,690	S		1.2	0.650	@ \$.017 per page/minute	3 \$.10 per block	
McDonnell, Harden	Chemistry	ASORRB: Paramagnetic resonance spectra research; hemoglobin muta- tions; fluidity of membranes; electro- chemical potential of membranes.	GB35501X	NSF		65,000	S		282.9	115,109			
McDevitt, Hugh	Immunology	MARSHAL: Calculation of the antigen- binding activity of antisera from mice immunized with various branched multichain synthetic polypeptide antigens.	A107157	NIH		159,606	S		34.9	11,586			
Welen, Robert	Electronics Lab	ISIMBROM: Development of a system of automatic classification of human chromosomes.	NOO44	Navy		465,000	S		3.1	0.837			
Welges, Frederick	Psychiatry	TEMP: Study of psychotic processes; especially relating changes in temporal experience to psychopatho- logical symptoms.	AA00498	HSMHA		718,697	S		106.0	26,925			
Miller, Craig	Cardiology	CAB: Development of risk/benefit guidelines for saphenous vein - coronary artery bypass surgery.	H105709	NIH		63,346	S		39.8	35,031			
Miller, Rupert	Statistics	THESES: Biostatistical computing by graduate students for theses or other educational use.	GM00025	NIH		90,614	T		5.6	1,569			
Miller, Rupert	Statistics	COURSES: Computing done by staff in connection with the teaching of biostatistics.	GM00025	NIH		90,614	T		0.0	0.0			
Miller, Warren	Psychiatry	ECI: Analysis of self-report psychi- atric inventory questionnaire.	---	Dept. Funds		---	S		6.8	2,405			
Wheatt, Roland	Surgery	RSP: Evaluation of respiratory studies as a measure of velopharynx- age, cine-fluorographic results, great incompetence, comparing it with operation, and time.	DB02803	NIH		31,434	S		12.8	3,922			
Morris, Randall	Surgery	CTX: In vitro assay of transplanta- tion immunity aimed at development of a superior immunosuppressive protocol.	GM01922	NIH		301,996	S		1.0	0.233			
Kyres, Woodrow	Youth Oppor- tunities Programs	IMBED: Introduction to computing for minority pre-med students.	---	Dept. Funds		---	T		50.2	17,745			
Wall, Lexie	Dermatology	PROBAST: Psoriasis research.	---	Dept. Funds		---	S		0.0	0.0			
Kay, William	Medical Microbiology	STRUCTUR: Statistical calculations and bibliography compilations in the field of immunochemistry.	A100082	NIH		152,418	S		42.8	6,344			

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									Minutes	Terminal Access Hours	Page/minutes (K)	Block Storage(K) (Block=2K Bytes)												
Coral, John	Immunology	ALZBORN: Calculation of antigen-binding activity of antisera from mice immunized with various branched multichain synthetic polypeptide antigens.	GM01922	NIH	304,996	S				4.2	1.304 page/minute	0.252	0.826	5.353	0.556	0.210	35.213	0.057	0.041	6.024	1.342	0.034	0.002	3.859
Ostrem, Dennis	Biochemistry	GLYCEROL: Enzyme research on glycol- TMA: Kinetics of substrate association, ultra-centrifuge experiments, and amino acid analysis.	GM13235	NIH	174,410	S				76.2	65.192	0.826	5.353	0.556	0.210	35.213	0.057	0.041	6.024	1.342	0.034	0.002	3.859	
Payne, Rose	Hematology	SERIAL: Extension and classification of leukocyte and/or tissue antigens by serologic and genetic analysis of specific human antisera.	HB03365	NIH	85,632	S				36.0	33.945	5.353	0.556	0.210	35.213	0.057	0.041	6.024	1.342	0.034	0.002	3.859		
Pfeiff, Eva	Medical Microbiology	CANVIRUS: In vitro studies of human tumors.	NCI-2-69- 2053	NIH	172,369	S				17.2	13.971	0.556	0.210	35.213	0.057	0.041	6.024	1.342	0.034	0.002	3.859			
Rapp, Wolfgang	Gastroenter- ology	OUDININ: Immunological determina- tion of the gastric antigenic esterase VI A in gastric juices of patients with gastric diseases.	AM06971	NIH	97,829	S				0.0	0.0	0.210	35.213	0.057	0.041	6.024	1.342	0.034	0.002	3.859				
Reaven, Gerald	Metabolism	PAT DATA: Risk factors in coronary heart disease; modeling of metabolic action important in diabetes mellitus and atherosclerosis; inpatient data on metabolic disorders; participation in nationwide clinical trial of "Lipid hypothesis".	HL14174	NIH	620,030	S				849.7	414.699	35.213	0.057	0.041	6.024	1.342	0.034	0.002	3.859					
Reaven, Gerald	Metabolism	LPCINPO: Study of prevalence of lipids and lipid diseases in closed populations.	HL14174	NIH	620,030	S				0.0	0.0	0.057	0.041	6.024	1.342	0.034	0.002	3.859						
Reaven, Gerald	Metabolism	PASSAY: Statistical studies of material obtained from inpatients in study of metabolic abnormalities.	HL14174	NIH	620,030	S				30.2	9.754	0.041	6.024	1.342	0.034	0.002	3.859							
Reaven, Gerald	Metabolism	SCOR: Study of relationship between attitudes and habits in atheroscler- osis.	HL14174	NIH	620,030	S				73.4	48.479	6.024	1.342	0.034	0.002	3.859								
Reaven, Gerald	Metabolism	SURES: Elucidation of relationship of health habits to atherosclerosis.	HL14174	NIH	620,030	S				83.0	42.878	1.342	0.034	0.002	3.859									
Reaven, Gerald	Metabolism	WASSAY: Assays of cholesterol and triglyceride to determine distribu- tion of lipid diseases in free living populations.	HL14174	NIH	620,030	S				31.3	10.374	0.034	0.002	3.859										
Reaven, Gerald	Metabolism	IMPAT: Opened in error; never used. research detailed above.	HL14174	NIH	620,030	S				0.0	0.0	0.002	3.859											
Reaven, Gerald	Metabolism	DISPLAY: Graphics display program and modeling programs for the	HL08506	NIH	71,305	S					2.456	3.859												

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INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	DIRECT GRANT OR CONTRACT SUPPORT			BRR Cate- gory*	BATCH	AMOUNT OF USAGE			Category 2 (cont'd.)	Non-Realtime	Sponsored Research (CHARGEABLE)
					Current Annual Amt.	Terminal Access Hours	Page/minutes (K)			Block Storage(K) (Block=2K Bytes)					
											Minutes	Terminal Access Hours			
Reynolds, Walter	Genetics	TEXTS: Text management support for engineering efforts in instrumenta- tion: commercial technical data and information retrieval programs.	NCH004	NASA	180,000	S	0.0	0.0	0.0	0.0	6.996	0.207	0.207	0.207	0.207
Robertson, William	Pediatrics	UGAG: Urinary analysis of glycosa- menoglycans; immunoglobulin concentra- tions in sera; binding of ligands to macromolecules.	---	Hart- Pdn.	---	S	11.0	4.836	0.0	0.0	0.207	0.207	0.207	0.207	0.207
Rosenberg, Leon	Medical Microbiology	ALXINE: Studies of serum complement in mice.	A109341	NIH	49,202	S	17.8	6.639	243.640	47.867	2.932	2.419	0.127	0.127	0.127
Rosenberg, Saul	Oncology	MEDNOL: Development of time- oriented patient record system for patients with malignant diseases.	---	Am. Cancer	---	C	346.0	52.1	28.568	0.461	0.561	0.004	0.102	0.019	0.019
Rosenberg, Saul	Oncology	STATIST: Statistical analysis of survival rates of cancer patients.	---	Am. Cancer	---	S	80.9	65.6	26.788	0.481	0.561	0.004	0.102	0.019	0.019
Rosenquist, Grace	Gastroenter- ology	GASTRIN: Calculation of serum gastrin concentrations of normals and patients with G.I. tract diseases.	AM06971	NIH	97,829	S	65.6	26.788	0.481	0.561	0.004	0.102	0.019	0.019	0.019
Rosenthal, William	Otolaryngol- ogy	RESEARCH: Auditory processing in language deviant children; longitu- dinal study and follow-up of language deviant children.	NS07514	NIH	157,136	S	2.2	0.481	0.0	0.0	0.004	0.102	0.019	0.019	0.019
Roughgarden, Jonathan	Biosciences	POPPOOL: Computer simulation of models of population growth.	---	Dept. Funds	---	S	0.0	0.0	0.0	0.0	0.004	0.102	0.019	0.019	0.019
Russell, Alan	Biochemistry	AFFINITY: Enzyme assay calculation.	GM07581	NIH	313,398	S	0.0	0.0	0.0	0.0	0.004	0.102	0.019	0.019	0.019
Russ, Frederick	Otolaryngol- ogy	OPTIMUM: Attempt to validate an automated approach to hearing screening in the newborn.	NS07974	NIH	42,521	C	1.5	0.766	0.0	0.0	0.004	0.102	0.019	0.019	0.019
Schubert, Earl	Otolaryngol- ogy	SONICS: Analysis of signal waveforms by Fourier, correlational and similar techniques.	---	Dept. Funds	---	S	21.1	8.790	70.411	1.089	2.930	0.940	0.940	0.940	0.940
Schwartz, Donald	Anesthesia	RESPOT: Calculation of cardiac indices; correlation with blood ionized calcium levels.	GM12527	NIH	503,159	S	129.5	9.6	817,700	503,159	817,700	503,159	817,700	503,159	817,700
Stimpson, Jack	Physics	SUGIE: Design work for a supercon- ducting magnetic beam transport channel for use in pion cancer therapy.	GI35007	NSF	817,700	S	9.6	6.285	2.930	0.940	0.940	0.940	0.940	0.940	0.940
Stiller, Alan	Psychiatry	CATAPULT: Relationship of parental separations during the first 18 years of life and personality characteris- tics of children.	---	Dept. Funds	---	S	31.8	8.985	0.940	0.940	0.940	0.940	0.940	0.940	0.940

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INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.	BRR Category*	Match	AMOUNT OF USAGE			Category 4 (cont'd.)	Medical Students (FRR)
								Terminal Access	Hours	Page/minute		
								Block Storage(K)	Block=2K Bytes	@ \$.10 per block		
Bull, Kenneth	Psychiatry	K BULL: Effects of injections of epinephrine v. nor-epinephrine on aggressive, withdrawal, fear) and autistic behaviors in Rhesus monkeys.				T		1.412				
Calvert, James	Student	TEXT: Solving the economic problem of medical research funds allocation; one criterion: change in mortality rate.				T		0.0				
Cavalli, Luca	Genetics	HUMPHREY: Classwork for course in human genetics.				T		12.163				
Cavalli, Luca	Genetics	BIOMETRY: Elementary biostatistics course for undergraduates, aimed especially at those who have difficulty with math.				T		69.228				
Chester, Thomas	Student	PLAQUE: Anti-tumor immune responsive effects of interferon and interferon inducers.				T		11.104				
Chissey, Iona	Student	KARSTADT: Calculation of enzyme activities and carbohydrate content of cell fractions.				T		8.129				
Corby, James	Student	HUBBY: Relationship between attention and enhancement of average evoked response (AER) magnitude.				T		0.177				
Decker, Don	Student	UCS: Ultrasound studies of human heart.				T		29.609				
Edwards, Joel	Student	GRIPPA: Characterization of goals in psychiatric wards and ward pressures on patients and staff to conform to the goals.				T		1.138				
Lebowy, Ronald	Student	TURPIN: Enzyme changes in the skeletal muscles of chronically exercised rats.				T		1.484				
Felder, Ralph	Student	NEUROVITS: Mathematical modeling of visual system of the cat.				T		3.0				
Feldman, Gary	Student	ASTHAM: Monitoring of airway resistance values during sessions with asthmatic patients and normal subjects.				T		0.0				
Fink, Glenn	Student	RHINO: Study of rhinoviruses.				T		0.308				
Freely, John	Student	DOGLAB: Indicator dilution techniques for measuring pulmonary blood flow and lung transfer function.				T		0.0				
Gettrel, Nanette	Student	GAY: Analysis of responses to questionnaire on psychiatrists' attitudes toward gay women.				T		3.973				

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				Current Annual Amt.	Cate- gory*	BRR	BATCH	Terminal Access Hours	Page minutes (K)

③ \$.10 per block

Student	Graber, Mark	T	T	19.9	6.164	13.391	0.047	17.412	56.4	95.5	53.878	6.453	0.446	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048
Student	Hussey, Richard	T	T	51.1	0.047	13.391	0.047	17.412	56.4	95.5	53.878	6.453	0.446	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048
Student	Jacobs, Beverly	T	T	0.1	0.047	13.391	0.047	17.412	56.4	95.5	53.878	6.453	0.446	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048
Student	Jany, Wesley	T	T	0.1	0.047	13.391	0.047	17.412	56.4	95.5	53.878	6.453	0.446	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048
Student	Klyde, Barry	T	T	95.5	53.878	6.453	0.446	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048	0.048	0.048	0.048	0.048	0.048	0.048
Student	Larsen, Barbara	T	T	1.3	0.446	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
Student	Levin, Rodney	T	T	140.2	51.788	4.417	4.899	0.192	0.732	0.216	0.072	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
Student	Lipp, Martin	T	T	0.0	0.0	0.0	0.054	10.266	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0
Student	Mascher, Gerald	T	T	0.2	0.054	10.266	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0	0.054	10.266
Student	Miller, Craig	T	T	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0	0.054	10.266	9.1	0.2	0.0
Student	Miller, Stephen	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Student	Maschak, Ronald	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Student	Mobley, William	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Myers, Woodrow	Student	MSTP: Instruction in statistics and introductory to computers for advanced minority high school students in the Youth Opportunities Program (YOP).				T			48.0	13.533	@ \$0.02 per page/minute	
	Student	POLYRIBO: Extraction of polyribo- somes and ribosomes from human fibroblast cells in culture to deter- mine relative proportions and quan- tity throughout cell life culture.				T			89.5	44,786		
	Student	DIFFEX: Establishment of computer program to aid in differential diagnosis.				T			0.0	0.0		
	Student	DIOMI: Effects of several drugs on hemodynamic parameters in dogs.				T			35.2	8,851		
	Student	NEURON: Modeling of interactions of groups of neurons.				T			57.6	30,555		
	Student	CIS: Learning use of AOME system.				T			6.6	2,045		
	Student	MODELIN: Formulation of comprehen- sive model for insulin metabolism in the human body.				T			0.0	0.0		
	Student	AR2101: Cardiovascular function parameters of various pharmacologic agents.				T			0.0	0.0		
	Student	ASSAYS: Calculation of enzyme assays and enzyme kinetics.				T			2.2	0.624		
	Student	OCUPSYCA: Study of psychophysiology- cal adaptation of male patients to the Coronary Care Unit.				T			0.0	0.0		
	Student	RESEARCH: Auditory processing in language deviant children; longitu- dinal study and follow-up of language deviant children.				T			0.0	0.0		
	Student	POPCIT: Statistical analysis of questionnaires completed by newspaper reporters and editors on their attitudes and orientations toward environmental health issues.				T			22.1	6.052		
Student	MASOCH: Item analysis of question- naire to determine which questions best discriminate between normals and psychiatric patients; also correlative items.				T			1.8	0.447			
Student	CELLCOUN: Analysis of Coulter Counter data for study of aging process at cellular level.				T							

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							Minutes	Terminal Access Hours	Page/minutes (K)	Block Storage(K) (Block=2K Bytes)	
							Minutes	Hours	Page/minutes	Block Storage(K)	
Category 4 (cont'd.)								Medical Students (FREE)			
Sleever, Larry	Student	GRADIENT: Study of gradients of biogenic amines in the spinal cord cerebrospinal fluid.				T	0.0	0.0	0.0	0.006	
	Student	HEARTOOL: Measurement of intervals between beats of individual heart cells and administration of drugs to cells to change environmental conditions.				T	0.0	0.0	0.0	0.034	
	Psychiatry	COMBIOL: Class account for "Computers in Biology and Medicine."				T	32.9	26.765	0.0	0.562	
	Student	FETAL: Data analysis for theses project on relationship of maternal corticosteroids to the development of the fetal hypothalamic-pituitary-adrenal axis.				T	25.2	21.616	0.0	0.145	
	Mostly Students	SCRATCH: Minor use of the system without data storage.				T	440.5	150.554	0.0	0.161	
SUB-TOTAL							1458.5	614.208	0.0	38.372	
							440.5	150.554	0.0	0.161	
							25.2	21.616	0.0	0.145	
							32.9	26.765	0.0	0.562	
							0.0	0.0	0.0	0.034	
							0.0	0.0	0.0	0.006	
Category 5 Healthtime, Core Research (FREE)											
Sackin, Virginia (J. Lederberg)	Genetics	GAME: Computer control of Flemingian 1015 quadrupole mass spectrometer.				Cor	109.2	143.923	@ \$.02 per page/minute	13.170	
	Neurology	ACME: Development of time series analysis service programs for ACME users.				Cor	592.8	394.915		15.709	
	Genetics	DEMURAL: Mass spectra analysis and interpretation.				Cor	3160.5	4146.608		190.330	
SUB-TOTAL							3862.5	4685.446		219.211	
Category 6 Non-Realtime, Core Research (FREE)											
Camp, Howard	Pediatrics	GUAT: Testing of new utility program for dumping files to tapes readable at other computer facilities.				Cor	0.0	0.0	@ \$.02 per page/minute	0.540	
	Prentice	P3000 SC: Preparation for possible ACM use of P3000 communications controller.				Cor	10.4	1.579		0.053	
	Clinical	DRUGALFT: Computerized system to warn of interactions of drugs administered to patients.				Cor	364.5	239.170		12.084	
	Genetics	PILOT1: Demonstration programs.				Cor	462.5	204.063		14.328	
	Genetics	PILOT2: System testing and monitoring.				Cor	281.2	117.959		9.217	
Rosenberg, Saul	Oncology	MEADNCOI/TOD: Test case for use of ACME's Time-Oriented Database (TOD) system.				Cor	257.0	240.886		7.773	
	SUB-TOTAL							1375.6	803.697		44.895

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							Terminal Access	Page-minutes (K)	Block Storage(K)	
Hassett, Robert	ACME	ACMECONS: Application program develop- ment; user consultation.	Cor			723.8		461.129	7.787	
Baxter, Erica	ACME	NOTES: Maintenance of ACME Note Index and list of user publications.	Cor			71.6		25.902	6.568	
Baxter, Erica	ACME	TRAINING: ACME user accounting records.	Cor			20.6		6.983	0.781	
Becker, Sheldon	Computation Center	ACME: System development and testing.	Cor			0.0		0.0	0.008	
Berman, Joseph	ACME	RACHE: System development and testing.	Cor			2.1		0.965	6.084	
Berns, Robert	ACME	MEMBAL: System development and testing.	Cor			9.8		3.953	6.513	
Breuerman, Charles	ACME	APPLICAT: System development and testing.	Cor			71.5		16.742	1.098	
Breuerman, Charles	ACME	RADIO: Development of radioimmuno- assay programs.	Cor			72.4		13.479	2.090	
Briggs, Russell	ACME	ACME: System development and testing.	Cor			0.8		0.176	6.142	
Briggs, Russell	ACME	RBDP-11: Disc monitor for PDP-11.	Cor			3.2		0.478	3.774	
Crouse, Linda	ACME	CATH LAB: Development of real-time medical applications.	Cor			25.1		7.109	4.689	
Felgenbaum, Edward	Computation Center	DEMOS: System demonstrations.	Cor			0.0		0.0	0.132	
Felgenbaum, Edward	Computation Center	TOZTEST: System demonstrations.	Cor			0.0		0.0	0.024	
Freret, Payne	ACME	LOMA: Development of graphics software.	Cor			1.5		0.285	0.264	
Frey, Regina	ACME	ACME: File system testing; consult- ing programs.	Cor			180.5		40.734	13.073	
George, Denise	Computation Center	OS: System development and testing.	Cor			0.0		0.0	0.002	
German, Frank	ACME	TOP: Development of Time-Oriented Database System (TOP).	Cor			283.6		204.121	7.214	
German, Frank	ACME	USERSERV: User consultation and applications program development.	Cor			122.9		57.227	1.331	
Musti, Rick	ACME	PI: System development and testing.	Cor			220.0		103.771	4.315	
Goheny, Mark	ACME	ACGIL: System development and testing.	Cor			236.6		98.754	1.364	

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							Terminal Access	Hours	PageMinutes (K)		
							BATCH	Minutes	Block Storage(K) (Block=2K Bytes)		
Granieri, Charles	ACME	ACME: System development and testing.		Cor	127.3		57.107		2.101		
Harrison, Jeff	ACME	SUMNER: System development and testing.		Cor	74.0		31.896		0.661		
Heathman, Mike	ACME	MINR: System development and testing.		Cor	81.3		77.241		3.794		
Huy, Jean	ACME	ACME: System development and test- ing.		Cor	0.0		0.0		8.172		
Hundley, Lee	ACME	ACME: System development and testing; emphasis on real-time data acquisition.		Cor	125.6		54.334		5.057		
Jantgaard, Ron	ACME	GOAL: Director's office projects.		Cor	115.0		30.988		1.350		
Jantgaard, Ron	ACME	MYJOB.TASK: Task management.		Cor	0.0		0.008		0.372		
Lederberg, Joshua	Genetics	TESTS: Systems tests.		Cor	102.6		36.001		3.110		
Leon, Leon	ACME	WORK: Development of applications program.		Cor	44.5		27.968		1.648		
Lew, Ying	ACME	SUMNER: System development and testing.		Cor	109.5		34.139		2.068		
Martin, Charles	Computation Center	ACME: System development and testing.		Cor	0.0		0.0		0.002		
Matheson, Russ	ACME	PI: System development and testing.		Cor	2.7		3.336		5.182		
Miller, Stu	ACME	ACME: System development and testing.		Cor	125.2		56.239		1.307		
Neimat, Marie-Anne	ACME	NEW: System development and testing.		Cor	22.2		6.298		0.226		
Nozaki, Tom	ACME	ENGINEER: Engineering applications.		Cor	35.4		11.049		2.795		
Powell, Marlin	ACME	WAR: Applications program develop- ment.		Cor	150.6		64.098		1.592		
Sanders, William	ACME	ASDPG: Hardware and software development.		Cor	0.2		0.050		1.342		
Schroeder, John	ACME	ACME: System development and testing.		Cor	1.0		0.150		0.019		
Stanton, Robert	ACME	SCC: System development and testing.		Cor	79.4		16.785		1.657		
Strubm, Bert	Computation Center	ENGINEER: Engineering applications.		Cor	0.0		0.0		0.004		
Tribble, Chuck	ACME	CAT: Development of computer-aided instruction for teaching PL/ACME.		Cor	176.8		55.653		9.617		

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AMOUNT OF USAGE										
TIME SHARING										
Category 7 (cont'd.)										
Staff (FREE)										
Weyl, Steve	ACME	DATABASE: Development of Time-Orient- ed Database System (TOD).		Cor	215.0			144.0	58.151	2.556
Weyl, Steve	ACME	SWEXT: Applications program develop- ment.		Cor					129.489	1.972
Weyl, Steve	ACME	SMAC: Applications program develop- ment.		Cor					0.0	0.004
Whitner, Jane	ACME	STATISTI: Statistical program devel- opment.		Cor	508.4				217.727	4.105
Whitner, Jane	ACME	STATTEST: Statistical program devel- opment.		Cor					0.0	0.183
Wiederhold, Gjo	ACME	TEST: System testing.		Cor	126.0				31.051	10.168
Wiederhold, Gjo	ACME	CSMP: Continuous system modelling program development.		Cor	0.0				0.0	4.092
Wiederhold, Gjo	ACME	DRMO: Demonstration for ACME visitors.		Cor	27.0				12.370	1.521
Wiederhold, Voy	ACME	MANUAL: Maintenance of PL/ACME Manual.		Cor	120.6				19.136	15.446
ACME Staff	ACME	JGPUBLIC: Development and storage of PUBLIC files.		Cor	72.1				25.534	9.554
ACME Staff	ACME	DATABANK.TODD: Public file of Time- Oriented Database (TOD) programs.		Cor	48.4				20.743	0.366
ACME Systems Staff	ACME	PROGRAMS: Collection of systems programs.		Cor	12.0				3.748	2.579
IBM Customer Engineers	IBM	ICE TERMDIAG: Terminal testing and diagnosis.		Cor	48.0				12.550	0.135
PL/ACME Classes	ACME	PLACME: Practice programming for PL/ACME classes.		T	326.2				106.272	1.925
SUB-TOTAL								5067.0	2241.919	180.555
Category 8										
Stanford University Hospital (CHARGEABLE)										
Barber, Vic	SUN Data Processing	SUNHDP: Accounting		Hosp. Funds	---	S		16.8	7.300	0.957
Barber, Vic	SUN Data Processing	MEDDELCO: Statistical survey for a data collection/transmission system.		Hosp. Funds	---	S		211.9	460.017	32.005
Daly, Virginia	SUN Clinical Lab-Immunol- ogy	CH50: Establishment of normal values for human serum total comp- lement levels and clinical tests on patients to determine their level.		Hosp. Funds	---	S		11.7	4.464	0.072
Category 9										
Stanford University Hospital (CHARGEABLE)										
Category 10										
Stanford University Hospital (CHARGEABLE)										

SUMMARY OF COMPUTER RESOURCE USAGE

April 17, 1972 - April 16, 1973

*Cor = Core Research and Development
C = Collaborative
S = Service
I = Training

INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.	BRR Cate- gory*	AMOUNT OF USAGE		
							BATCH	Minutes	Terminal Access
							Hours	Page/minute	Block Storage(K)
TIME SHARING									
Category 8 (cont'd.)									
Forrest, William	SUN Clinic	SCHEDULE: Automation of monthly scheduling of doctors for "on call" duty.	---	Clinic Budget	48.2	S	27.398	@ \$0.17 per page/minute	2.202
Petralli, John	SUN Clinical	MED DATA: Computer method for improvement of antibiotic sensitivity data and guidance in therapy.	---	Hosp. Funds	2035.0	S	777.931	@ \$0.17 per page/minute	84.559
Petralli, John	SUN Clinical	PROGRESS: Program development for infectious disease lab computing.	---	Hosp. Funds	14.4	S	2.293	@ \$0.17 per page/minute	1.931
Petralli, John	SUN Clinical	INFCON: Infection control: data on isolation patients.	---	Hosp. Funds	104.1	S	16.271	@ \$0.17 per page/minute	1.834
Sussman, Howard	SUN Clinical	LAB-Pathol- programs for data generated by clinical laboratory information system.	---	Hosp. Funds	175.7	S	42.753	@ \$0.17 per page/minute	1.242
SUB-TOTAL								1338.427	124.802
Category 10 Realtime, Pilot and Pending Proposal (FREE)								144.557	8.390
SUB-TOTAL								29.388	0.410
Category 11 Non-Realtime, Pilot and Pending Proposal (FREE)								0.0	0.072
SUB-TOTAL								106.758	2.440
Belt, Donald	Otolaryngol-ogy	HEAR: Collection and processing of hearing loss data.		S	0.0		0.0	@ \$0.02 per page/minute	0.072
Cavalli, Luca	Genetics	LAMRA: Data analysis on population Genetics.		S	190.9		15.780	@ \$0.10 per block	0.960
Cohen, Leon	Neurology	MOTOR: Statistical analysis of single motor unit action potentials recorded from normals and patients. Aim is to develop diagnostic method for diseases of peripheral nerves and muscle.		S	13.6		7.020	@ \$0.10 per block	0.138
Schwartz, Donald	Anesthesia	RESPOT: Calculation of cardiac indices; correlation with blood ionized calcium levels.		S	10.9		129.558	@ \$0.10 per block	3.670

SUMMARY OF COMPUTER RESOURCE USAGE

April 17, 1972 - April 16, 1973

*Cor = Core Research and Development
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INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Annual Amt.	BRR Cate- Gory*	AMOUNT OF USAGE				
							Minutes	Terminal Access Hours	Page-minutes (K)	Block Storage(K) (Block=2K Bytes)	
											BATCH
TIME SHARING											
Category 12	Realtime,	Extended Non-funded (PRR)	Urology	URO: Investigation of upper urinary tract physiology.	S	SUB-TOTAL	130.8	107.699	1.173	@ \$.10 per block	
							130.8	107.699	1.173		
								@ \$.02 per page-minute	@ \$.10 per block		
Category 13	Non-Realtime,	Extended Non-funded (PRR)	Psychiatry	KENYA: Analysis of data collected in Kenya, relating the effect of social structure of primary family on infants' social attachments in the first year of life.	S	SUB-TOTAL	4.3	1.359	1.796	@ \$.10 per block	
							4.3	1.359	1.796		
								@ \$.02 per page-minute	@ \$.10 per block		
Category 16	Combination of Core Research	and Application (CHARGEABLE)	SUN Pharmacy	ALERT: Drug Interaction Project, hospital pharmacy service.	---	S	SUB-TOTAL	3670.2	7456.016	95.581	@ \$.10 per block
							3670.2	7456.016	95.581		
								@ \$.013 per page-minute	@ \$.10 per block		
Category 17	Operations (PRR)		ACME	ACME: Operations management; system testing and demonstration.	Cor		6710.0	4800.367	10.425	@ \$.10 per block	
							174.3	78.438	2.903		
							0.0	0.0	0.600		
							0.0	0.0	0.004		
							3.9	0.816	0.322		
							53.4	6.838	3.994		
							6941.6	4886.459	18.268		
Category 9	Non-Health-Related Users (CHARGEABLE)					SUB-TOTAL	576.3	340.154	23.388	@ \$.10 per block	
							576.3	340.154	23.388		
								@ \$.02 per page-minute	@ \$.10 per block		
**These totals are shown because Pharmacy utilization involves many page-minutes but little actual computing. The usage distorts the "page-minute" as a measure of overall system use.											
EXCLUDING PHARMACY**											
			GRAND TOTAL	6,976			122764.5	31920.861	1420.727		
			GRAND TOTAL	6,976			119094.3	24464.845	1325.146		

Percentage of scheduled time 2.1%
 due to failures
 not available to users

RESOURCE USAGE
 April 16, 1973

*Cor = Core Research and Development
 C = Collaborative
 S = Service
 T = Training

CA CONTRACT SUPPORT		BRR		AMOUNT OF USAGE	
Agency	Current Annual Amt.	Date-Category*	Minutes	Terminal Access Hours	Page/minutes (K)
Department	69		6,976	16920.5	12511.209
	18				
	176				
	61				
Branch	324		6,976	122188.2	31580.707
	23				
	347				
			6,976	122764.5	31920.861
					</

SUMMARY OF COMMIT
 April 17, 1972 -

INVESTIGATOR		DEPARTMENT/ INSTITUTION	PROJECT TITLE	DIRECT GRA IDENTIFY Number
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Core Research and De
 Collaborative
 Service
 Training
 SUB-TOTAL
 Non-Health-Related R
 GRAND TOTAL

Time scheduled for users
 128 hours
 6063 hours
 Time not available to users

VIII. APPENDICES

- A. Rationale of Shared Data Base Concept
- B. Medical Center Computer Planning Chronology
- C. Small Machine Multiplexor
 (Excerpt of ACME Note HAD.)
- D. ACME Note Index (May 11, 1973)
- E. ACME User Publications

APPENDIX A

DATE: March 16, 1973

TO : P. Carpenter

FROM : E. Levinthal

SUBJECT: Rationale of Shared Data Base Concept

This memorandum elaborates the rationale supporting the shared data base concept as it relates to the Medical Center Computing Facility. Computing at the Medical School can be categorized as follows:

1. Use of in-patient or out-patient data by clinical departments.
This involves, in varying amounts, three components, a) teaching, b) research, c) patient-service management (i.e. fees, records, bills, etc.).
2. Non-patient related computing by clinical departments.
This part is only indirectly related to the shared data base issue. Insofar as clinical faculty are using a computer resource for their patient related computing needs, they are apt, as a matter of convenience and familiarity, to want to use the same facility for the remainder of their needs. This will be modulated by considerations of price and services offered.
3. Non-patient related computing carried out by non-clinical faculty. This is clearly unrelated to the data base concept. It is, of course, related to the cost and services offered on the 370/158 system compared to those offered elsewhere. Many of these users take advantage of functions which call statistical routines and which are now built into the PL/ACME system. These will also be an important requirement of users in categories 1 and 2. In this case therefore the issue (as in category 2) is the service rendered, not the data base.

Addressing solely category one, memoranda were solicited from several members of this class. The responses are attached* and provide support for the shared data base concept.

There is clearly a momentum to use computers to handle patient related problems. Faculty are able to find resources to pursue these problems and will pursue them whether or not a shared data base in a central computer system is available. In principle the communication link researcher-to-researcher and researcher-to-business office are transactions that can be carried out by movement of paper or digital tapes or hardware interfaces between stand-alone facilities.

*Memos attached from Drs. Cohen, Fries, Harrison and Merigan.