User Ratings of Minicomputers and Small Business Computers

TABLE 2. USER RATINGS (Continued)

					Weighted Average User Ratings*											
Manufacturer and Model	No. of User Replies	No. of Computers Repre- sented	Length of Time in Use,	Average Memory Size, Words or Bytes	Ease of operation	Reliability of mainframe	Reliability of peripherals	Responsiveness of maintenance service	Effectiveness of maintenance service	Technical support	Operating system	Compilers and assemblers	Applications programs	Ease of programming	Ease of conversion	Overall satisfaction
IBM: System/3— Model 6 Model 8 Model 10 Model 12 Model 12 Unspecified System/3 Totals	5 10 31 21 43 9 119	5 11 32 22 45 10 125	64 16 56 19 27 22 19	16KB 27KB 26KB 54KB 165KB 79KB 85KB	3.6 3.3 3.4 3.7 3.4 3.4 3.5	3.6 3.8 3.7 4.0 3.7 3.7 3.8	3.6 3.6 3.4 3.5 3.4 3.4	3.6 3.2 3.5 3.4 3.4 3.2 3.4	3.8 3.2 3.4 3.5 3.4 3.0 3.4	3.4 2.9 2.9 3.0 3.0 2.7 3.0	3.2 3.3 3.4 3.2 3.1 3.2 3.2	3.4 3.2 3.4 3.2 3.2 3.1 3.2	3.3 2.7 2.7 3.0 2.8 2.4 2.8	3.4 3.2 3.4 3.5 3.3 3.4 3.4	3.5 2.8 2.9 3.5 3.1 2.8 3.1	3.4 3.5 3.3 3.4 3.2 3.1 3.3
System/7 System/32 System/360 Model 20 IBM 1130 IBM 1800 IBM 5100 IBM Totals	19 36 2 14 8 4 202	23 93 2 15 14 4 276	28 16 120 102 91 8 26	29KB 22KB 16KB 16KW 26KW 48KW	2.8 3.6 3.0 3.1 2.9 3.5 3.4	3.5 3.8 3.5 3.7 3.8 4.0 3.7	2.6 3.6 3.5 3.0 2.9 4.0 3.3	3.1 3.6 4.0 3.4 3.0 3.5 3.4	3.0 3.5 4.0 2.9 3.3 3.5 3.3	2.6 3.1 3.0 2.3 2.6 2.7 2.9	2.9 3.3 3.0 2.5 3.4 3.5 3.1	2.6 3.2 3.0 2.5 3.1 2.5 3.1	2.6 2.7 3.0 2.4 3.2 2.7 2.8	2.2 3.3 3.0 2.8 2.9 3.5 3.2	2.4 3.1 3.0 2.4 2.3 2.7 2.9	2.7 3.3 3.5 3.0 3.3 3.0 3.3
Interdata: Interdata Model 70 Interdata 7/16 Interdata 7/32 Other models Interdata Totals	5 1 5 4 15	16 4 5 5 30	45 6 24 15 25	67KB 64KB 237KB 60KB 118KB	3.2 3.5 3.0 3.3 3.2	3.4 3.0 3.0 3.5 3.3	3.3 3.5 2.8 2.5 2.9	3.0 3.0 2.8 3.5 3.1	3.3 3.0 2.8 3.5 3.1	3.0 3.0 2.3 2.0 2.5	3.0 3.0 2.8 2.0 2.7	2.8 3.0 3.0 3.0 2.9	2.0 2.0 3.7 3.0	3.5 3.5 3.2 3.3 3.3	2.7 2.0 2.8 3.0 2.8	3.3 3.0 2.6 3.5 3.1
Jacquard J100	2	2	11	110KB	3.5	3.5	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.5
Litton (all models)	3	4	29	19KB	2.3	2.0	1.7	2.0	1.7	1.3	2.0	2.0	2.7	1.0	1.0	2.0
Microdata: REALITY Other models Microdata Totals	14 2 16	34 2 36	15 — 15	55KB 72KB 151KB	3.7 3.0 3.6	3.1 2.5 3.1	3.2 4.0 3.3	3.4 4.0 3.5	3.2 4.0 3.2	2.9 4.0 3.0	3.2 4.0 3.3	3.0 3.5 3.1	2.4 4.0 2.6	3.2 4.0 3.3	3.0 4.0 3.1	3.2 3.0 3.2
Modcomp (all models)	5	5	. 16	85KB	3.0	3.2	3.0	2.3	2.5	2.3	3.3	3.2	3.3	3.2	2.5	2.4
NCR: Century 50 & 100 Century 101 Century 151 Century Totals NCR 299/399/499 NCR 8200/8250 NCR Totals	7 19 6 32 3 9	8 24 6 38 32 9	73 48 17 46 15 8 36	27KB 54KB 120KB 61KB 19KB 89KB 64KB	3.1 3.4 3.2 3.3 3.0 3.9 3.4	2.4 3.6 3.2 3.3 3.0 3.6 3.3	2.6 2.8 2.7 2.7 2.7 3.1 2.8	3.4 3.3 3.2 3.3 3.0 3.4 3.3	2.7 2.9 2.7 2.8 3.3 3.4 3.0	2.1 2.2 2.7 2.3 2.3 2.0 2.2	2.9 3.2 3.0 3.1 3.0 2.9 3.0	2.6 3.1 3.0 2.9 3.5 3.4 3.1	2.5 2.9 2.4 2.7 3.5 2.4 2.7	2.9 3.3 3.0 3.1 3.3 3.1 3.1	2.7 3.3 3.2 3.2 2.3 2.8 3.0	2.7 3.2 3.0 3.0 3.0 3.0 3.0 3.0
Prime Computer (all models)	4	4	25	463KB	3.0	3.3	3.3	3.5	3.0	3.0	3.5	3.7	2.3	3.3	3.7	3.3
Raytheon (all models)	3	3	12	117KB	2.7	2.0	1.7	2.0	1.7	2.0	1.0	1.3	2.0	2.3	1.5	2.0
Singer (ICL) System Ten	7	36	43	42KB	3.7	3.3	3.0	2.9	2.9	1.9	3.0	2.9	2.0	3.0	2.8	2.6
Sycor 440	3	8	11	64KB	3.3	3.7	3.0	2.3	2.7	2.3	2.3	2.7	2.0	2.7	2.5	3.0
Systems Engineering Labs (all models)	2	2	-	96KW	3.5	4.0	3.0	2.5	2.5	2.5	3.0	3.0	1.0	3.5	3.5	3.0
Texas Instruments (all models)	5	10	16	30KW	3.2	3.4	2.8	1.3	1.7	1.0	2.3	2.0	2.5	3.0	3.3	2.6
Univac: Univac/Varian 620 Series Univac/Varian V70 Series	2 5	16 11	92 7	20KW 132KW	3.0 3.5	4.0 3.5	3.5 3.2	4.0 2.5	4.0 2.5	2.0 2.5	2.0 2.5	2.0	1.0 3.0	3.0 2.4	3.0	3.5 2.8
Univac/Varian Totals Univac 90/30 Univac Totals	7 15 22	27 16 43	24 15 17	95KW 218KB	2.9 3.3 3.2	3.1 3.3 3.2	3.3 2.9 3.1	2.8 3.3 3.2	2.8 3.1 3.1	2.4 2.7 2.7	2.4 3.5 3.3	2.6 3.4 3.2	2.3 3.0 2.9	2.6 3.3 3.1	2.7 3.1 3.0	3.0 3.3 3.2
Wang Labs, 2200 Series	16	21	13	26KB	3.7	3.4	3.0	2.9	2.6	2.7	2.9	3.4	2.3	3.6	3.2	3.2
All Other Manufacturers	17	20	23	-	3.3	3.5	2.9	2.8	2.9	2.2	2.8	2.9	3.1	2.8	2.7	3.0
GRAND TOTALS	816	2362	25		3.4	3.4	3.0	3.0	3.0	2.6	3.0	3. 0	2.7	3.1	3.0	3.1

^{*}Weighted Average User Ratings are calculated on a scale of 4.0 for Excellent, 3 for Good, 2 for Fair, and 1 for Poor.

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➤ In this case, of course, the percentage figures total less than 100 percent because many of the respondents were not using any independent peripheral devices on their systems.

Finally, and most importantly, the users were asked to rate their minicomputers and the associated software and vendor support by assigning a rating of Excellent, Good, Fair, or Poor to each of 12 factors: ease of operation, reliability of mainframe, reliability of peripherals, responsiveness of maintenance service, effectiveness of maintenance service, technical support, operating system, compilers and assemblers, applications programs, ease of programming, ease of conversion, and overall satisfaction.

The resulting user ratings of more than 60 popular minicomputers and small business computers from 30 vendors are reported in Table 2. All ratings are expressed in terms of Weighted Averages, which were calculated by assigning a weight of 4 to each user rating of Excellent, 3 to Good, 2 to Fair, and 1 to Poor, and then dividing the sum by the number of users who rated each factor.

Prospective buyers should note that the small sample sizes for some of the minicomputer models make it unwise to draw firm conclusions from the indicated ratings. Rather, the ratings should be used as guides to potential product strengths and weaknesses that may call for further investigation in selecting the most suitable equipment for your needs. A minicomputer user's degree of satisfaction may depend heavily upon his specific application, the overall system in which the minicomputer is incorporated, and the quality of support and service provided by the vendor's nearest branch office. Also, as this survey clearly shows, many minicomputer users get

their software, technical support, and/or peripheral equipment from sources other than the minicomputer makers.

The ratings assigned by all of the responding users can be combined to form the following overall picture of user satisfaction with the current minicomputers and small business computers:

*** * 1 . 1 .

Weighted Average User Ratings
3.4
3.4
3.0
3.0
3.0
2.6
3.0
3.0
2.7
3.1
3.0
3.1

None of these overall weighted average user ratings differs by more than 0.1 from the results of last year's survey. Therefore, we can conclude, as we did in 1976, that most minicomputer and small business computer users are fairly well pleased with their equipment and the associated software and maintenance service. The only significant weaknesses are in the areas of applications programs and technical support—and these are precisely the areas that have been neglected by many of the minicomputer vendors until quite recently.