Cray

Customer Satisfaction Survey Western Region Report of Findings



CRAY

WESTERN REGION REPORT OF FINDINGS

JUNE 9, 1986

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CONTENTS

- Objectives and Methodology
- Analysis of Findings
 - Overall Attitudes, Decision Criteria
 - Hardware Reliability/Support
 - Software Reliability/Support
 - CRI Marketing and Hardware Management
- Recommendations/Summary
- Sample Questionnaire

Assuming Summers

CRI OBJECTIVE

- Maintain CRI as the Standard of Value
- Further Strengthen CRI by:
 Using Customer Satisfaction as a Primary Competitive Edge
- Method:
 Conduct Customer Satisfaction Survey to Understand Attitudes/Concerns
- Outcome:
 Identify Steps to Enhance Customer
 Satisfaction

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METHODOLOGY

- U.S.A. Customer's Only
- 42 Sites (West = 12)
- 45 Interviews (West = 14)
- 18 On-Site Interviews (West = 7)
- 27 Telephone Interviews (West = 7)
- Respondents: Person(s) Most Likely to:
 - Influence Next Supercomputer Acquisition
 - Be Most Knowledgeable of CRI Performance
- Standard Questionnaire
- Comments Actively Encouraged

INPUT :



RATING SCALES

Respondents Often Asked to Rate
 Their Attitudes on a Scale of 1 to 10

1 - Low

10 - High

- Respondents Given No Further Description of Rating Values
- Generally Consider Evaluating Responses as Follows:

9 - 10 Excellent

7 - 8 Good

5 - 6 Fair

1 - 4 Poor

• A= Western Region Number



WESTERN REGION CUSTOMERS INTERVIEWED

ORGANIZATION

Boeing Compter Services

Chevron Oil Field Research

Digital Productions

Fairchild

GA Technologies

Lawrence Livermore Nat. Lab.

Lockheed Adv. Aeronautics

Lockheed Missiles and Space

NASA Ames

National Magnetic Fusion Energy

Rockwell

Sandia Nat. Lab., CA

RESPONDENT

Robert Spielman

Jim Simpson

Jim Davis

Carlso D'Angelo

Sid Karin

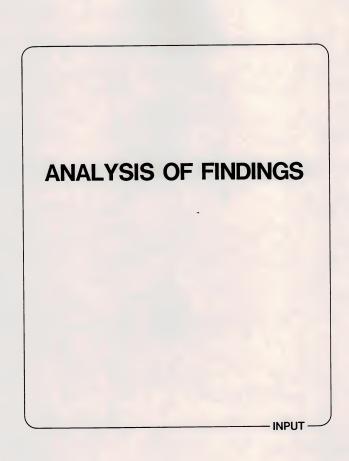
Bob Borchers

Harold Weinberger

Doug Telford

F. R. Bailey
Marcie Smith
John Kileen
Marilyn Richards
Dan Parcel
Abraham Levine
Steve Binkley



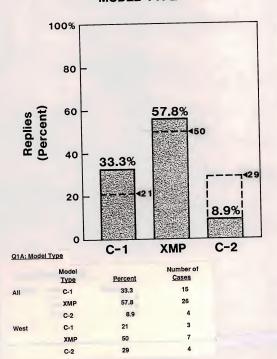




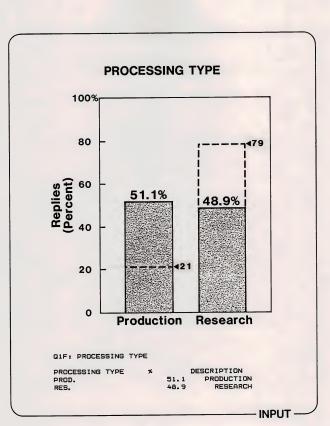
CUSTOMER PROFILE



MODEL TYPE





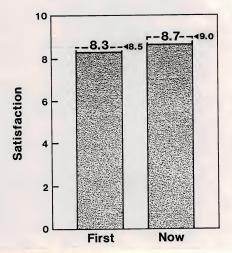




OVERALL ATTITUDES AND DECISION CRITERIA



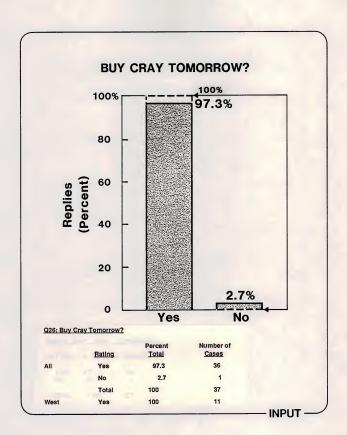
CRAY SYSTEM MEETING EXPECTATIONS



Q24: Extent Living up to Expectations

	Code	Mean	Min.	Max.	Std. Dev.	Cases
All	First	8.3	1	10	2	45
	Now	8.7	5	10	1.3	45
West	First	8.5	5	10	1.2	14
	Now	9.0	8	10	8.0	14







WHY BUY FROM CRAY TOMORROW MORNING?

"Hardware Well-Designed"

"Compatibility"

"No Alternative Today"

"Dollar for Dollar, CRAY is Best"

"But- - - - - - - "

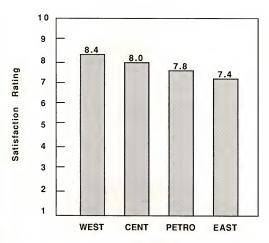
"My Answer Might Be Different a Year from Now"

"Our Software Needs May Help CRI Competition"

- INPUT



REG. OS SKILL (SITE)

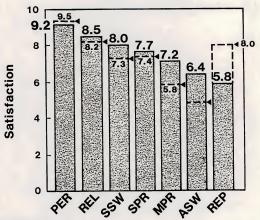


REGION

Q16: Region O	S Skill Level (On-	site)			
Region	Mean	Min.	Max.	Std. Dev.	Number of Cases
West	8.4	8	10	.8	7
Cent	8	4	10	2.5	5
Petro	7.8	5	10	1.7	11
East	7.4	5	8	1.3	5
Total					21



DECISION CRITERIA TODAY



Q2: Decision Criteria

	Code	Mean	Min.	Max.	Std. Dev.	Description
Ali	PER	9.2	6.0	10.0	1.1	Overall System Perform.
	REL	8.5	3.0	10.0	1.6	System Reliability
	SSW	8.0	1.0	10.0	2.0	Availability of Sys. SW
	REP	5.8	1.0	10.0	3.0	Vendor Maint. Rep.
	SPR	7.7	4.0	10.0	1.6	Overall System Price
	MPR	7.2	3.0	10.0	1.8	Maintenance Price
	ASW	6.4	3.0	10.0	1.8	Avail. of Appl. SW
West	PER	9.5	8.0	10.0	0.8	
	REL	8.2	4.0	10.0	2.0	
	SSW	7.3	1.0	10.0	2.9	
	REP	8.0	5.0	10.0	1.7	
	SPR	7.4	4.0	10.0	1.8	
	MPR	5.8	3.0	8.0	1.6	
	ASW	4.8	1.0	10.0	2.9	



COMMENTS REGARDING DECISION CRITERIA

"Ease of Converting Is Very Important."

"Compatibility Is Very Important."

"Throughput and Compatibility Is Key."

"Availability of Systems Software Will Be Especially Important."

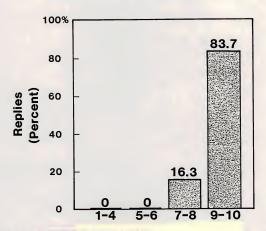


HARDWARE RELIABILITY/SUPPORT

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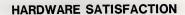
HARDWARE INSTALLATION

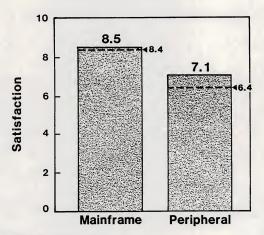


Q19;	Hardware Installation						
	Rating	Percent Total	Number of Cases	Mean	Min.	Max,	Std. Dev.
	1-4	0	0				
	5-6	0	0				
	7-8	16.3	7				
	9-10	83.7	36	_			
All	Total	100.0	43	(9.4)	7	10	.9
West			14	9.4	8	10	.8







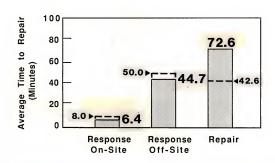


Q9: Mainframe Availability/Reliability

All	Code MF PER	Mean 8.5 7.1	Min. 2 2	<u>Max.</u> 10 10	Std. <u>Dev.</u> 1.8 1.8	<u>Cases</u> 44 42	<u>Description</u> Mainframe Avali./Reliability Peripheral Avali./Reliability
West	MF	8.4					
	PER	6.4					



HARDWARE SUPPORT TIME

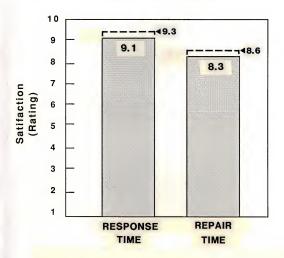


O7A	R	Q8. Hardware	Response/Repair Time

	Code	<u>Mean</u>	Min.	Max.	Std. Dev.	Number of Cases
All	Response On-Site	6.4	1	60	10.0	35
	Response Off-Site	44.7	10	75	17.7	17
	Repair	72.6	18	210	47.5	30
West	Response On-Site	8	1	60	16.5	12
	Response Off-Site	50	10	75	24.7	5
	Repair	42.6	18	60	16.6	17



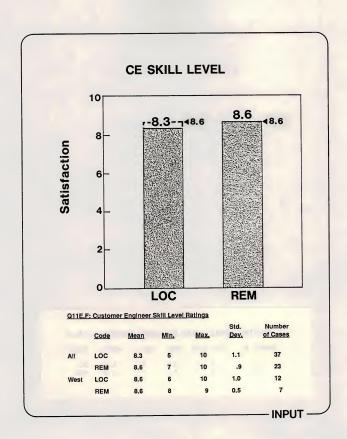
HARDWARE MAINTENANCE SATISFACTION



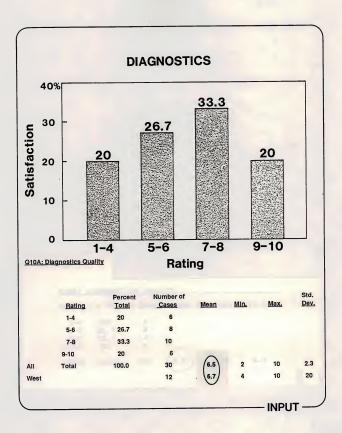
Q9C,D: Hardware Maintenance Response/Repair Time

	Code	Mean	Min.	Max.	Std. Dev.	Number of <u>Cases</u>
All	RESPONSE	9.1	5	10	1.1	38
	REPAIR	8.3	2	10	1.7	37
West	RESPONSE	9.3	8	10	1.2	12
	REPAIR	8.6	6	10	2.0	11







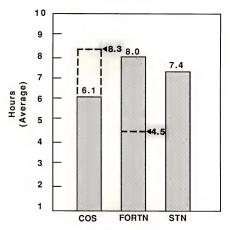




SOFTWARE RELIABILITY/SUPPORT



SYSTEMS SOFTWARE RESPONSE TIME



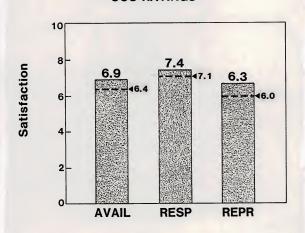
Type of Software

Q13: Systems Software Response Time

	Type	Mean	Min.	Max.	Number of <u>Cases</u>	Description
All	cos	6.1	.1	40	17	cos
	FORTN	8	.1	80	17	FORTRAN
	STN	7.4	.1	40	10	STATION
West	cos	8.3	1	16	3	cos
	FORTN	4.5	1	8	2	FORTRAN



COS RATINGS



	Code	Mean	Min.	Max.	Std. Dev.	Number of Cases	Description
All	AVAIL	6.9	2	10	1.9	35	OS Avail./Reliability
	RESP	7.4	2	10	1.9	30	OS Maint. Response Time Rating
	REPR	6.3	2	9	1.6	30	OS Maint. Repair Time Rating
West	AVAIL	6.4	2	10	2.2	10	
	RESP	7.1	2	10	2.5	8	

1.6

7

Q15: Operating Systems Ratings

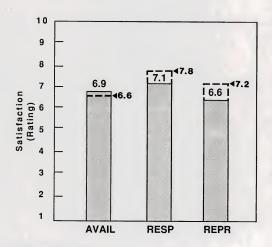
REPR

6.0

2



FORTRAN RATINGS



Q15, Fortran Ratings (Q15)

	Code	Mean	Min.	Max.	Std. Dev.	Number of Cases	Description
All	AVAIL	6.9	2	10	1.8		Fortran Avail./Rel.
	RESP	7.1	2	10	2		Fortran Maint, Resp. Time
	REPR	6.6	2	9	1.8		Fortran Maint. Repair Time
West	AVAIL	6.6	6	8	0.7	9	
	RESP	7.8	6 _	10	1.6	5	
	REPR	7.2	6	8	0.8	6	



SOFTWARE RESPONSE/REPAIR COMMENTS

"Takes Months to Resolve Software Problems."

"Takes 1 Hour to Forever to Repair Software."

"Is Responsive to Severe Software Problems, But Less So to Less Urgent Ones."

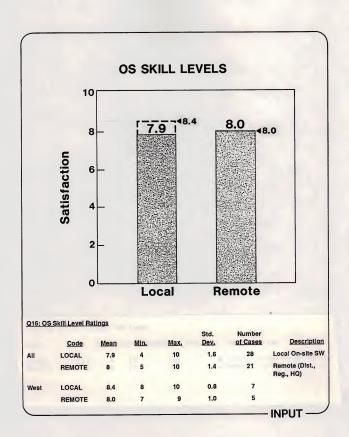
"Repair Time for Non-Critical Software Problems Is Terrible."

"Deferred Software Problems Take Too Long."

"CRI Is Terrible Regarding Bugs in Initial Releases."

"Many CRI Users in CUG Are Upset Regarding CRI's Quality Assurance Methods."







FORTRAN COMMENTS

"FORTRAN has Dropped in Quality in the Past Year."

"CFT Is a Nightmare."

"CFT Is a Shaky Piece of Software."

"We Feel No One Is Listening to Us Regarding CFT."

"Can't Get Any Attention at CRI Headquarters Regarding FORTRAN."

"FORTRAN Is a Memory Hog."



EXAMPLES OF UNIX COMMENTS

"We Are Uneasy About UNIX Planning."

"CRAY Should Carefully Evaluate if UNIX Is the Right OS."

"Very Important to Have Smooth Transition to UNIX."

"UNIX Information Flow to Us Is Sporadic."



COMMENTS CONCERNING SOFTWARE (GOVERNMENT CUSTOMERS)

"Want More CTSS Support from CRI"

"Improve Software."

"(CRI) Software Helps Competition."

"Repeatedly Ship Software That Doesn't Work."

"If We Had Relied on CRAY Software, We Would Have Been Much Further Behind."

"Taken CRAY a Long Time to Realize That Software Is Key to the Environment."

"If CRAY Software Were As Good As Their Hardware, No One Could Touch Them."



COMMENTS CONCERNING SOFTWARE (COMMERCIAL CUSTOMERS)

"Software Is Not Robust."

"Not At Same Level As Other Vendors."

"Need More Features."

"All Our Fault Finding with CRI Relates to Software."

"Insure Compatibility between OS Levels."

"Systems Software Development Is Crucial."

"Systems Software Failure - Our Strongest Concern."

"Software Is CRAY's Weakness."

"CRI Wants to Get Away from Software."

"CRAY Really Lacking in Systems Software."

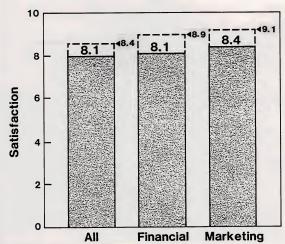
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CRI MARKETING AND HQ MANAGEMENT



CRI RESPONSIVENESS

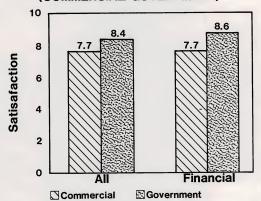


021A	BC.	CRI	Respo	nelv	Page

Q21A.B.C	C: CRI Respo	nsiveness			Std.	Number	
	Code	Mean	Min.	Max.	Dev.	of Cases	Description
All	ALL	8	3	10	1.8	44	To Overall Needs
	FIN	8.1	3	10	2	41	To Financial Quest.
	мкта	8.4	5	10	1.5	41	Marketing Person- nel Helpfulness
West	ALL	8.4	6	10	1.4	14	
	FIN	8.9	6	10	1.2	14	
	MKTG	9.1	7	10	1.1	13	



CRI RESPONSIVENESS (COMMERCIAL/GOVERNMENT)



Q21AB : CRI RESPONSIVENESS

3 10

FIN.

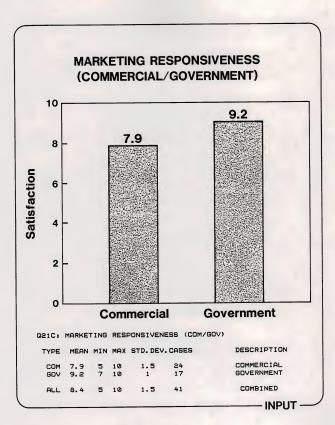
DESCRIPTION MEAN MIN MAX STD. DEV. CASES TO OVERALL NEEDS ALL TO FINANCIAL QUESTIONS

41

STD. DEV. STD. DEV. (ALL) (FIN)

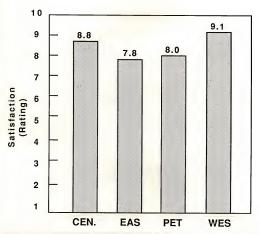
ALL FIN 2.2 COM 7.7 7.7 1.8 GOV 1.6







MARKETING RESPONSIVENESS (REGION)

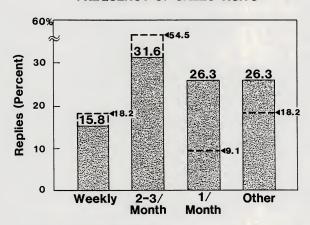


Q21C: Marketing	Personnel	Heinfulnese	(By Region)

Region	Mean	Min.	Max,	Std. Dev.	Number of <u>Cases</u>	Description
CEN	8.8	6	10	1.4	8	Central
EAS	7.8	5	10	1.8	10	Eastern
PET	8	6	10	1.4	10	Petroleum
WES	9.1	7	10	1.7	13	Western
ALL	8.4	5	10	1.5	41	All Regions Combined



FREQUENCY OF SALES VISITS



Q21D: Frequency of	CRI Marketing	Ren Visits

AS ID. CI	equelicy of Ch	I Marketing In	A A ISHA	
	Class	Percent Total	Number of <u>Cases</u>	Description
All	Weekly	15.8	6	Once per Week
	2-3/Mo.	31.6	12	2 to 3 Times per Month
	1/Mo.	26.3	10	About once per Month
	Other	26.3	10	Other
	Total	100	38	
West	Weekly	18.2		
	2-3/Mo.	54.5		
	1/Mo.	9.1		
	Other	18.2		
	Total	100.0	11	



LOCAL SALES STAFF

- Most Are Responsive at the Local Level
- Kept Too Isolated from Corporate Activities, Decisions
- Don't Have Enough Authority
- Love Us and Leave Us



CRI HEADQUARTERS MANAGEMENT

- Responsive
- Available
- Too Inflexible Regarding Policies
- Sometimes Come Across As Arrogant



CRI'S MARKET POSITION

- To Date: Only Game in Town
- Very Soon: Significant Competition That Has Less Fast Hardware, But:
 - More Reliable Hardware
 - Better Systems Software
 - More Flexible Business Policies
 - Better End User Empathy, Support



TYPICAL ADJECTIVES USED BY RESPONDENTS

POSITIVE ADJECTIVES	NEGATIVE ADJECTIVES
Class Company	Set in Ways
Best Kid on Block	Arrogant
Great Hardware	Poor Software
Making Progress on Deficiencies	Progress Is too Slow



COMPARISON: GOVERNMENT VERSUS COMMERCIAL

Item	Government Attitudes	Commercial Attitudes
CRI Image:	A Class Act	Not a Class Act
Standard of Comparison:	CDC, Other Supercom- puter Vendors	IBM, DEC, Japanese
Decision Criteria:	Speed Software	Availability Total Needs
Software:	Support CTSS	Support Production Processing



QUALITY AND PERFORMANCE STANDARDS ARE CHANGING

- Quality Definition Is Changing:
 - No Longer = Hardware Speed
 - Now = Hardware/Software/Support
 Availability and Reliability
- CRI Current Quality Is:
 - Superior to IBM in Terms of:
 - · Hardware Speed, But
 - Inferior to IBM in Terms of:
 - · Reliability
 - Hardware/Software Support
 - · Sales Support



RECOMMENDATIONS

- Customer-Based
- INPUT-Based



CUSTOMER-BASED RECOMMENDATIONS



PERCEPTIONS OF CRI ATTITUDES/CHANGE NEEDED

Current CRI Attitudes	CRI Needs to Change to
Meeting Expectations	Meeting Total Needs
Fixing a Problem	Avoiding Problem in First Place
Policy Clarification	Creating Better Ones Quickly
Wanting to Help	Making It Happen
Scientific LabOriented	Responding to Com- mercial Differences
Hardware Oriented	Total Computing Solution Oriented



INCREASE INTERACTION WITH CUSTOMER TOP MANAGEMENT

Purpose:

Keep Key Decision-Makers Continuously Pro-CRI

- Suggestions:
 - More Frequent Sales Contact
 - More CRI Top Management Contact
 - Conduct Executive Seminars
 - Develop Top Management-Oriented Presentations/Papers



INCREASE INTERACTION WITH END USERS

Purpose:

Help Information Systems Department Fill Up Installed CRAYs Faster

- Suggestions:
 - Get To Know End Users More Intimately
 - More Frequent Sales Contact
 - Establish Regular Flow of Applications Ideas

 - Newsletter
 Special Seminars
 - Offer More End-User Applications Tools
 - Publicize Availability of Third-Party Software



KEEP INFORMATION SYSTEMS PEOPLE BETTER INFORMED

• Purpose:

Keep Key Personnel Happy, Sell More

- Suggestions:
 - Formally Communicate New Products, Services, Plans, Policy Announcements
 - Increase Frequency of Sales Contacts
 - Require Hardware/Software Support Managers to Meet Customers
 - Respond Faster to Pricing, Contracts,
 Product Questions
 - Send Special Summary of This Survey

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GENERAL RECOMMENDATIONS

- Clarify Existing Plans/Directions
 - UNICOS Characteristics, Implications
 - YMP Status
- Develop "CRI Vision of the Computing Future" Presentation
- More Aggressively Stimulate End-User Demand for CRI Computing Power



SUMMARY: CUSTOMER ATTITUDES

- CRI is a Very Impressive Company
- But Competitive Threat Is Greater Than CRI Realizes
- Customers Are Very Worried CRI is Insensitive to Need for a Total Computing Solution Strategy
- CRI Is Changing Too Slowly Regarding:
 - Role of Software
 - Reasonable Policies
 - Support After the Sale
 - Respect for the Customer
- Customers Like CRI and Want to Win



INPUT-BASED RECOMMENDATIONS





INPUT RECOMMENDATIONS:

BUSINESS STRATEGY

• Reduce Image of:

We Are the Premier Hardware Performance Vendor

Increase Image of:

We Are the Premier Vendor for Total Computing Solutions for the Large-Scale Computing User

 Carefully Define, Respond to Commercial Versus Government Differences



INPUT RECOMMENDATIONS: BUSINESS STRATEGY

- Explicitly Define the Total Computing Solutions in Terms of:
 - Role of CRI in Commercial Shops
 - Role of CRI in IBM, DEC, Etc. World
 - Strong, Leading Edge Systems
 Software
 - Enhanced Information Systems and End-User Support



INPUT RECOMMENDATIONS:

MAKE SYSTEMS SOFTWARE QUALITY, QUANTITY A TOP PRIORITY

- Software Now Perceived As Afterthought
- Make It a Major Competitive Edge
- Provide Powerful:
 - OS Functions
 - Languages
 - Applications Development Tools

INPUT -



SUMMARY

- User Expectations Are Changing and Increasing
- Customers Are Loyal, Want CRI to Prosper
- Government/Commercial Distinctions Becoming Apparent
- Customers Concerned CRI Is Underestimating Importance of Total Computing Solution Strategy
- Result: Loyalty to CRI Will Diminish as Com-\
 petition Grows
- Opportunity: Demonstrate CRI Can Respond to these Changiling Customer Needs

INPUT -



SAMPLE QUESTIONNAIRE

INPUT -



INTRODUCTION

Cray Research has commissioned INPUT to conduct a national customer satisfaction survey of all Cray computer users. The purpose of the survey is to help Cray identify opportunities to best serve you and others in the future.

INPUT is an independent international market research and consulting firm that specializes in the computer industry.

Cray has specifically asked us to interview you. Your opinions and suggestions are very important to Cray. We would like to get your candid responses at this time. If you wish any of your answers to be treated anonymously, please let us know.

SYSTEM PROFILE

1. To begin with we would like a quick profile of your current $Cray\ computer\ system(s)$.

		System #1	System #2	System #3
a.	Model Type			
b.	Date of Installation			
c.	Operating System			
d.	Maint. Contract Type			
e.	Maint. Service Since (Month/Year)			
f.	Type of processing for			
	majority of work: (Circle answer)	PRODUCTION	PRODUCTION	PRODUCTION
		RESEARCH	RESEARCH	RESEARCH

Definition: "Production" processing directly serves the organization's primary operational mission and is characterized most often by repetitive tasks that are frequently time critical. In contrast, "Research" processing usually involves projects dealing with investigations of scientific-related phenonemena, and is typically less time critical than production tasks.



DECISION CRITERIA
2. If your organization were to purchase a supercomputer today, how important would each of these factors be in the purchase decision process (scale of 1 to 10, with 1 = very low and 10 = very high importance). Rating (1 to 10)
a. Overall system performance
b. System reliability
c. Availability of systems software
d. Availability of applications software
e. Vendor reputation for maintenance
f. Overall system price
g. Maintenance price
PERFORMANCE
3. How many hours per week is your system currently scheduled to operate? HOURS
4. What is your percentage of utilization of the system during the past month, i.e. what portion of the time is the system actually being used, expressed as a percentage of the time the system is available for use. (Excluded from available time is downtime due to preventive maintenance and non-problem related software update time.)
5. What percent utilization (on average over the past 6 months) are you currently experiencing with the entire system?
6. How many hardware or software-caused system interruptions per system do you have monthly (on average over the past 6 months)?
a. What percent are hardware related?
b. What percent are software related?
c. What percent are "other" (environment, etc.)?
TOTAL = 100%

PG. 2 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY



HARDWARE	
7. On the average how long does it take Cray to re have placed a maintenance request:	espond once you
a. during regular maintenance availability time?	minutes
b. during off-hours?minutes	
8. On the average how long does it take your Cray engineer to repair routine hardware problems once begun?hours	customer work has
9. On a scale of 1 to 10, how satisfied are you wi	ith Cray's:
	Rating (1 to 10)
a. Mainframe availability/reliability	
b. Peripheral availability/reliability (e.g. disks, tapes, I/O subsystem)	1
c. Hardware maintenance response time	
d. Hardware maintenance repair time	
Oa. On a scale of 1 to 10, in your opinion what i quality of the diagnostic procedures currently being any?	s the level of ng used by
10b. What factors influenced your rating?	

PG. 3 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY



fol]	Please rate on a scale of 1 to llowing hardware goods and servi vel of satisfaction.	10 your req ces, as well	uirements : as your c	for the urrent
	Re	quirement? (YES/NO)	Satisfact: (1 to 10	
a.	Hardware installation consulting			
b.	. Hardware documentation			
c.	Parts availability			
d.	 Cray's escalation procedures 			
e.	e. Cray ON-SITE customer engineer skill level			
f.	 Cray FIELD hardware technical support personnel skill level (i.e. region or headquarters -based people) 			
	-101			
OFI	TWARE			
.2.	For which of the following typ currently receiving support (es of system check all th	s software at apply)?	are you
	COSCTSS	UNICOS		
	FORTRANSTATION			
		Operating System	FORTRAN	STATION
	On average, how long does it take Cray to RESPOND to a systems software problem? (in hours)			
	On average, how long does it take Cray to RESOLVE a systems software problem? (in hours)	la.		

PG. 4 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY_



PG.	5	CRAY	CUSTOMER	SATISFACTIO	ON SURVEY(ON	-SITE/PHONE)	#ZCRY
					Operating		
15.	How (1	satis to 10	sfied are , 10 = hi	you ghest) with:	System	FORTRAN	STATION
			ns softwar ability/re	re eliability			
			ns softwar enance RES	SPONSE time.			-
			ns softwar enance RE	re PAIR time		,	
16.	wit of	h the softwa	sfied are different are support led by:	methods			
	a.	Cray analy		Software			
	b.	techr	FIELD son nical supp nnel (req nuarter-ba	oort gion or			
	•						
17. supp	Wou	ld you maint	be willi enance by	ng to parti y any of the	cipate in s	ystems software	are
				Doing Now? (YES/NO	Doing?	Expect Maintena Discount (YES/NO)	?
a. V	cen		th a support of the s	ort	. <u></u>	(YES/NO)	How Much?
b.	or	modifi	ng patches cations l by Cray.		1		
c.	rel		ng new received				



PG.	6	CRAY	CUSTOMER	SATISFACTION	SURVEY	ON-SITE/PHON	E) #ZCRY
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foll	Please rate on a scale of owing systems software god ent level of satisfaction:	ods	to 1	o s	you erv	r r	eqι s,	air as	emen we:	nts 11	as	or t you	he ir
			АТ	I	s	F A	С	T :	ΙО	N	(1	то	10)
			pera Syste				FC	ORT:	RAN		S	[TAT	ON
a.	Systems software documentation				_		_			_	_		
b.	Systems software training at your site				_		_						
c.	Systems software training at Cray headquarters				_		_			_			
d.	Systems software consulting				_		_			_	_		
e.	Systems software escalation				_		_			_	_		
GENEI	PAT.												
L9a.	On a scale of 1 to 10, howare installation service	w :	satis ovide	sfi ed	led by	we	re ay?	you	ı wi	ith	th	ie .	
:	19b. What factors influence rating above?	ed	you	: i	ins	tal:	lat	ioi	n sa	ati	sfa	cti	.on
	-												
									_	_		-	
		-				-				_			_



FG. / CRAY COSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #2CRY
20a. Would you like to see Cray become more active in the use of remote diagnostics?
YES NO
20b.Why or why not?
21. The following questions relate to how well you like doing business with Cray. Please respond on a scale of 1 to 10 with 1 being not satisfied and 10 being extremely satisfied. Satisfaction (1 to 10)
a. Extent Cray is responsive to your organization's overall needs
b. Cray's responses to your financial questions
c. Helpfulness of Cray marketing personnel
In regards to your Cray marketing representative:
d. On the average, how frequently have you seen that person face to face during the past six months?
ABOUT ONCE PER WEEK
ABOUT 2 TO 3 TIMES PER MONTH
ABOUT ONCE PER MONTH
OTHER
(Specify frequency)
e. How many working days has it been since you last you last received a visit from that person?
DAYS SINCE LAST VISIT



22 fo:	On	a scale of 1 to 10 (10 = high) please rate ing categories:	Cray in the Satisfaction (1 to 10)
	a. b. c.	Overall satisfaction with Cray's maintenance service Price of maintenance service Frequency of interaction with Cray executive and senior management personnel	
23 be	. Wh	at suggestions do you have concerning how i roved between Cray executives and Cray cust	nteraction could omers?
		on a scale of 1 to 10, how well is your Cray your expectations: Expectation Level (1 to 10	on
	a	When you first acquired it?	-17.7
	b	Currently?	

PG. 8 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY___



rning you were to iring additional om Cray?
iring additional
omments that you woul aspect of their

PG. 9 CRAY CUSTOMER SATISFACTION SURVEY(ON-SITE/PHONE) #ZCRY



eg. 10 CRAY CUS	TOMER SATISFACTION SURV	EY(ON-SITE/PHONE) #ZCRY
ADDITIONAL NOTES		
·		

THANK YOU VERY MUCH FOR YOUR TIME

