AWARD/CONTRACT 1. THIS CONTRACT IS A RATI UNDER DPAS (15 CFR 350)				R			RATING	1 1	PAGES	
2. CONTRACT W911NF-04-1	(Proc. Inst. Ident.) NO.	Inst. Ident.) NO. 3. EFFECTIVE DATE			4. REQUISITION/PURCHASE REQUEST/PROJECT NO. E-45810-MA-000-04272-1					
US ARMY RDECOM ACQ CTR - W911NF 4300 S. MIAMI BLVD DURHAM NC 27703-			6. ADMINISTERED BY (If other than Item 5) CODE N66020 ONRRO ATLANTA 100 ALABAMA STREET, NW SUITE 4R15 ATLANTA GA 30303-3104							
GEORGE MASON L 4400 UNIVERSITY I	DRIVE	OR (No., street, city,	county, state a	and zip code)	8. DELIVERY [] FOB ORIGIN [X] OTHER (See below) 9. DISCOUNT FOR PROMPT PAYMENT				ow)	
FAIRFAX VA 22030-	4444						Net 30 Days	ICES	ІТЕМ	
CODE 7X764		FACILITY CODE					(4 copies unless other TO THE ADDRES SHOWN IN:	rwise specified)	Block	6
				12 PAYM	FNT WI	LL BE MAI	DE BY	CODE	HQ0303	
11. SHIP TO/MARK FOR TRANSPORTATION OFFICE - W36QYT PR PROP BK ACCT DURHAM PO BOX 12211 RESEARCH TRIANGLE PARK NC 27709-2211			DFAS-ROCK	ISLAND D OPERA -RI-FPV	TING LOCATIO					
	Y FOR USING OTHER THA	N FULL AND OPE	N	14. ACCOU	J NTIN G	AND APPR	ROPRIATION DA	ATA		
COMPETIT		U.S.C. 253(c)()		See Sche	dule					
15A. ITEM NO.	15B. SUP	PLIES/ SERVICES		15C. QUAI	TITY 15D. UNIT 15E. UNIT PRICE		15F. AMC	UNT		
	SEE SO	CHEDULE			150	TOTAL A	MOUNT OF C	ONTRACT	\$7	0,000.00
		16.	TABLE O	F CONTEN						0,000,00
(X) SEC.	DESCRIPTION	V	PAGE(S)	(X) SEC.				SCRIPTION		PAGE(S)
<u> </u>	PART I - THE SCHI			 	000			ACT CLAUSES		
	<u>ICITATION/ CONTRACT FO</u> PLIES OR SERVICES AND I		-	DADTI		RACT CLAU		IBITS AND OTHE	D ATTACUM	ENTS
	CRIPTION/ SPECS./ WORK		<u> </u>			F ATTACH		IBITS AND OTHE	KATIACIIM	ENTS
	KAGING AND MARKING							NS AND INSTRU	CTIONS	
	PECTION AND ACCEPTANCE			l k	1		NS, CERTIFICA			
	IVERIES OR PERFORMANG TRACT ADMINISTRATION		 				AND NOTICES	TO OFFERORS		
	CIAL CONTRACT REQUIRE			M			CTORS FOR AV			
		ONTRACTING OFF	ICER WIL						-	
	OR'S NEGOTIATED AGREEMENT	Contractor is required to		18. [X] AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number						
document and return copies to issuing office. Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation			including the additions or changes made by you which additions or changes are set forth in full							
sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract,			above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates							
(b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein.			the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.							
(Attachments are listed herein.) 19A. NAME AND TITLE OF SIGNER (Type or print)			20A. NAME AND TITLE OF CONTRACTING OFFICER							
19A. NAME AND TITLE OF SIGNER (Type or print)			SUSAN P. HILL / GRANTS/CONTRACTING OFFICER TEL: (919) 549-4338 EMAIL:							
19B. NAME OF	19B. NAME OF CONTRACTOR 19C. DATE SIGNED					TES OF AM			20C. DATE SI	GNED
BY			BY Sus 3. HO 29-Sep-2004)4			
(Signature of person authorized to sign)			(Signature of Contracting Officer)							

PREVIOUS EDITION UNUSABLE

Section B - Supplies or Services and Prices

ITEM NO. 0001

DESCRIPTION

AMOUNT (U.S Dollars) \$70,000

GRANT AWARD

This grant award supports the research identified in the Recipient's proposal titled "Analytic and Graphical Methods for Streaming Data with Applications to Netcentric Warfare," which is incorporated by reference. The estimated cost of the research is set forth in the budget contained within this grant attached as Exhibit A.

The Principal Investigator is Dr. Edward Wegman, 703-993-1691, email: ewegman@gmu.edu

ARO Grants Officer's Representative is Dr. Robert Launer, 919-549-4309, email: robert.launer@us.army.mil.

This grant is issued pursuant to the authority of 10 U.S.C. 2358. The ARO CFDA # is 12.431.

Period of Performance:

1 November 2004 - 31 October 2005

AWARD AMOUNT:

\$70,000

FUNDED AMOUNT:

\$70,000

OPTION PERIODS:

#1 \$72,000 12 months #2 \$75,000 12 months

ACCOUNTING AND APPROPRIATION DATA

AA: 21 0405 2040 0000 018129 4 6N 6N7C 611102H57ER 255Y 4ER45810MA57ER 4X57ER 018129 AMOUNT: \$70,000.00

1. TERMS AND CONDITIONS: This grant is subject to the U. S. Army Research General Terms and Conditions for Grant Awards to Educational Institutions and Other Nonprofit Organizations dated JUL 99 and to any special considerations as contained in the below mentioned Article titled "Special Terms and Conditions." These terms and conditions are incorporated by reference with the same force and effect as if they were given in full text. The full text of the terms and conditions may be accessed electronically at http://www.aro.army.mil/index.htm.

2. PAYMENTS:

A. Pursuant to the Debt Collection Improvement Act of 1996 (Public Law 104-134) and DOD Grant and Agreement Regulations (DODGARs) §22.810, it is a Government wide requirement to use electronic funds transfer (EFT) for the payment of any grant for which an application or proposal was submitted or renewed on or after July 26, 1996. This policy is mandatory unless the Recipient has obtained a waiver by submitting to the head of the pertinent Federal agency a certification that it has neither an account with a financial institution nor an authorized payment agent.

B. Grant payments to the Recipient shall be made by the payment office identified in Block 12 of the SF 26 in accordance with the following pre-determined schedule of payments:

PAYMENT NO.	PAYMENT DATE	PAYMENT
1	8 November 2004	\$17,500
2	8 February 2005	\$17,500
3	8 May 2005	\$17,500
4	8 August 2005	\$15,750
5	Upon receipt and approval of all required closing documents.	\$ 1,750*

The Recipient shall advise the Grants Officer if at any time an adjustment to the above payment schedule is required due to a variance between projected and experienced expenditures.

- * Upon exercise of an option, the final payment of this schedule shall be authorized and a new schedule of payments will be established.
- 3. ADMINISTRATION: This grant is administered by the Grantor and the Office of Naval Research (ONR) identified in Block 6 of the SF26. See the Article titled "Delegation of Administration Duties" contained in the above referenced Terms and Conditions for the identity of the administration duties delegated to the ONR.
- 4. FUNDING INCREMENTS AND/OR OPTIONS: The Grantor's obligation to provide funding for increments and/or options is pursuant to the Article contained in the above referenced Terms and Conditions titled "Funding Increments and/or Options."
- 5. REPORTING REQUIREMENTS: Technical and financial reporting requirements are pursuant to the Articles contained in the above referenced Terms and Conditions.
- 6. ACCEPTANCE OF GRANT: Acceptance of this grant is pursuant to the Article titled "Acceptance of Grant" contained in the above referenced Terms and Conditions.
- 7. SPECIAL TERMS AND CONDITIONS: None

ATTACHMENTS: Exhibit A -- Budget

AWARD MOD 1

AMENDMENT OF SOLICITA	TION/MODIF	FICATION OF CONTRACT	1. CONTRACT	ID CODE	PAGEO	F PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT N		
P00001	02-Dec-2005	E-45810-MA-000-04272-1		l I		
6. ISSUED BY CODE	W911NF	7. ADMINISTERED BY (Ifother than item 6)	CO	DE N6602	.0	
US ARMY RDECOM ACQ CTR - W911NF 4300 S. MIAMI BLVD DURHAM NC 27703		ONRRO ATLANTA 100 ALABAMA STREET, NW SUITE 4R15 ATLANTA GA 30303-3104				
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County,	State and Zip Code)	9A. AMENDM	ENT OF SOI	ICIT AT I	ON NO.
4400 UNIVERSITY DRIVE FAIRFAX VA 22030-4444			9B. DATED (S	EE ITEM 11)	
		[10A. MOD. OF W911NF-04-1-	CONTRACT	Γ/ORDER	NO.
CODE 79704	la		10B. DATED (01-Nov-2004	(SEE ITEM 1	(3)	
CODE 7X764	FACILITY COL	DE 'APPLIES TO AMENDMENTS OF SOLICI	1011101 2007	· · · · · · · · · · · · · · · · · · ·		
The above numbered solicitation is amended as set forth			is extended,	is not exten	ded.	
Offer must acknowledge receipt of this amendment prio (a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes a re RECEIVED AT THE PLACE DESIGNATED FOR TH REJECTION OF YOUR OFFER. If by virtue of this am provided each telegramor letter makes reference to the s	copies of the amendment brence to the solicitation E RECEIPT OF OFFERS endment you desire to cha	nt; (b) By acknowledging receipt of this amendment and amendment numbers. FAILURE OF YOUR AC PRIOR TO THE HOUR AND DATE SPECIFIED! ange an offer already submitted, such change may be	on each copy of the of KNOWLEDGMENT MAY RESULT IN made by telegramor le	то ве		
12. ACCOUNTING AND APPROPRIATION DA	TA (If required)					
See Schedule		TO MODERA THOUSAND A COUNTY A	ORDERG			
		TO MODIFICATIONS OF CONTRACT SA CT/ORDER NO. AS DESCRIBED IN ITEM				
A. THIS CHANGE ORDER IS ISSUED PURSU CONTRACT ORDER NO. IN ITEM 10A.	ANT TO: (Specify a	uthority) THE CHANGES SET FORTH II	N ITEM 14 ARE N	MADE IN TH	ΙΕ	
B. THE ABOVE NUMBERED CONTRACT/O office, appropriation date, etc.) SET FORT	H IN ITEM 14, PUR	SUANT TO THE AUTHORITY OF FAR		as changes in	paying	
C. THIS SUPPLEMENT AL AGREEMENT IS	ENTERED INTO PO	DRSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and a UNILATERAL; Grant Provisions	uthority)					
E. IMPORTANT: Contractor X is not,	is required to sig	n this document and return	opies to the issuin	g office.		
 DESCRIPTION OF AMENDMENT/MODIFICATION OF AMENDMENT/MODIFICATION (MODIFICATION OF AMENDMENT) Modification Control Number: goodsonv0 	, ,	by UCF section headings, including solicit	ation/contract subj	ect matter		
The purpose of this modification is to exercise	Option #1 in the amo	ount of \$72,000 for a 12 month period of	performance unde	er Grant W91	1NF-04-1	-0447.
GOR: Dr. Robert Launer Pt. Dr. Edward Wegman P-45810-MA						
Except as provided herein, all terms and conditions of the do						
15A. NAME AND TITLE OF SIGNER (Type or	print)	16A. NAME AND TITLE OF CON KATHRYN C. TERRY/GRANTS/CONTRACTH TEL: 919-549-4337		CER (Type o	r print)	
15B. CONTRACT OR/OFFEROR	15C, DATE SIGNE			160	DATE S	IGNED
		BY Kosthonyon C			-Dec-200	
(Signature of person authorized to sign)		(Signature of Contracting Office	cer)	02	-L UC C-200	J

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

This modification fully funds Option #1 as follows:

ITEM NO

DESCRIPTION

000101

Funding: Option #1

SUBCLIN 000101:

Funding on SUBCLIN 000101 is obligated as follows:

ACRN AB: 21 0607 2040 0000 018129 6 6N 6N7C 611102H57MF 255Y 6MF45810MA57MF 6X57MF 018129 **\$72,000.00**

1. The grant is changed as follows:

	PREVIOUS AMT	AMT OF INCREASE	REVISED AMT
AWARD AMOUNT:	\$70,000	\$72,000	\$142,000
FUNDED AMOUNT:	\$70,000	\$72,000	\$142,000

2. The PERIOD OF PERFORMANCE of the basic grant is changed as follows:

FROM: 01 November 2004 - 31 October 2005 TO: 01 November 2004 - 31 October 2006

3. Article 3.B. of the basic grant award is revised as follows:

Payment No.	Payment Date	Payment Amount
1	15 Dec 2005	\$18,000
2	15 Mar 2006	\$18,000
3	15 Jun 2006	\$18,000
4	15 Sep 2006	\$10,800
5	Upon receipt & approval	\$7,200
	of all required closing documents	

The grantee shall advise the Grant's Officer whenever an adjustment to the above payment schedule is required due to a variance between projected and experienced expenditures.

- 4. The final payment of \$1,750, authorized in the basic award document, may be released upon execution of this modification.
- 5. All other provisions remain unchanged.

AWARD MOD 2

AMENINMENT OF SOLICITA	1. CONTRACT ID CODE		PAGE OF PAGES			
AMENDMENT OF SOLICITA		ICATION OF CONTRACT			1 2	
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5.1	PROJECTN	IO.(Ifapplicable)	
P00002	13-Nov-2006	SEE SCHEDULE				
6. ISSUED BY CODE	W911NF	7. ADMINISTERED BY (Ifother than item6)	CODE	N6602	0	
US ARMY RDECOM ACQ CTR - W911NF 4300 S. MIAMI BLVD DURHAM NG 27703		ONRRO ATLANTA 100 ALABAMA STREET, NW SUITE 4R15 ATLANTA GA 30303-3104				
8. NAME AND ADDRESS OF CONTRACTOR (GEORGE MASON UNIVERSITY	No., Street, County, S	tate and Zip Code)	9A. AMENDMENT	Γ OF SOL	ICITATION NO.	
4400 UNIVERSITY DRIVE FAIRFAX VA 22030-4444			9B. DATED (SEE)	ITEM [1])	
			X 10A. MOD. OF CO W911NF-04-1-044	NTRACT	ONDER NO.	
			10B. DATED (SEE ITEM 13)			
CODE 7X764	FACILITY COD		X 01-Nov-2004			
		PPLIES TO AMENDMENTS OF SOLIC				
The above numbered solicitation is amended as set forth	in Item 14. The hour and d	ate specified for receipt of Offier	is extended, i	s not extend	led.	
Offer must acknowledge receipt of this amendment prior (a) By completing Items 8 and 15, and returning or (c) By separate letter or telegram which includes a ref RECEIVED ATTHE PLACE DESIGNATED FOR THI REJECTION OF YOUR OFFER. If by virtue of this ame provided each telegramor letter makes reference to the se	copies of the amendment erence to the solicitation and E RECEIPT OF OFFERS P endment you desire to chan olicitation and this amendr	; (b) By acknowledging receipt of this amendmen nd amendment numbers. FAILURE OF YOUR A RIOR TO THE HOUR AND DATE SPECIFIED ge an offer already submitted, such change may b	nt on each copy of the offer su CKNOWLEDGMENT TO E MAY RESULT IN e made by telegramor letter,			
12. ACCOUNTING AND APPROPRIATION DA See Schedule	TA (If required)					
		O MODIFICATIONS OF CONTRACTS				
A. THIS CHANGE ORDER IS ISSUED PURSU. CONTRACT ORDER NO. IN ITEM 10A.		T/ORDER NO. AS DESCRIBED IN ITE thority) THE CHANGES SET FORTH		DE IN TH	E	
B. THE ABOVE NUMBERED CONTRACT/Ol office, appropriation date, etc.) SET FORT				hanges in	paying	
C. THIS SUPPLEMENT AL AGREEMENT IS	ENTERED INTO PUI	RSUANT TO AUTHORITY OF:				
X D. OTHER (Specify type of modification and a Unilateral; Grant Provisions	uthority)					
E. IMPORTANT: Contractor X is not,	is required to sign	this document and return	copies to the issuing of	fice.		
14. DESCRIPTION OF AMENDMENT/MODIFIC where feasible.) Modification Control Number: terryk07188	_	y UCF section headings, including solici	tation/contract subject	matter		
The purpose of this modification is to exercise	Option #2 in the previ	ously negotiated amount of \$75,000.00). See page 2.			
P-45810-MA GOR: Dr. David Chris Arney PI: Dr. Edward Wegman						
Execution annuithed hards all terms as I are 1997 as 200	nument referenced in the Co	A or IOA as haratefine shapes a service of	and and in full face and a		,	
Except as provided herein, all terms and conditions of the doc 15A. NAME AND TITLE OF SIGNER (Type or p	16A. NAME AND TITLE OF COM	F CONTRACTING OFFICER (Type or print)				
	KATHRYN C. TERRY / GRANTS/CONTRACT TEL: 919-549-4337	RACTING OFFICER EMAIL: kathy.terry@us.army.mil				
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMER		16C.	DATE SIGNED		
(6-4-4-5-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-				≥ 13-	Nov-2006	
(Signature of person authorized to sign)	<u> </u>	(Signature of Contracting Off	icer)			

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SUBCLIN 000102 is added as follows:

ITEM NO 000102

DESCRIPTION

Option #2 funding - COST

FOB: Destination

PURCHASE REQUEST NUMBER: 45810MA07022

ACRN AC: 21 0708 2040 0000 018129 7 6N 6N7C 611102H57MF 255Y 7MF45810MA57MF 7X57MF 018129

\$75,000.00

CIN: 45810MA070220001

1. The grant is changed as follows:

PREVIOUS AMT AMT OF INCREASE REVISED AMT AWARD AMOUNT: \$142,000 \$75,000 \$217,000 FUNDED AMOUNT: \$142,000 \$75,000 \$217,000

2. The PERIOD OF PERFORMANCE is changed as follows:

FROM: 1 November 2004 – 31 October 2006

TO: 1 October 2004 – 31 October 2007

3. Payments for the amount of the increase shall be as follows:

Payment No.	Payment Date	Payment Amount
. 1	1 December 2006	\$18,750
2	1 March 2007	\$18,750
3	1 June 2007	\$18,750
4	1 September 2007	\$16,875
5	Upon receipt & approval of	\$ 1,875
	all required closing documents	

The grantee shall advise the Grant's Officer whenever an adjustment to the above payment schedule is required due to a variance between projected and experienced expenditures.

- 4. The final payment of \$7,200, authorized in P00001, may be released upon execution of this modification.
- 5. All other provisions remain unchanged.

(End of Summary of Changes)

AWARD MOD 3

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT	ID CODE	PAGE OF PAGES
TENDENT OF SOLICITY		CATION OF CONTRACT			1 1
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT N	O.(Ifapplicable)
P00003	02-Nov-2007	SEE SCHEDULE			
6. ISSUED BY CODE	W911NF	7. ADMINISTERED BY (Ifother than item6)	CO	DE N6602	0
US ARMY RDECOM ACQ CTR - W911NF 4300 S. MIAMI BLVD DURHAM NC 27703		ONRRO ATLANTA 100 ALABAMA STREET, NW SUITE 4R15 ATLANTA GA 30303-3104			i
NAME AND ADDRESS OF CONTRACTOR (GEORGE MASON UNIVERSITY 4400 UNIVERSITY DRIVE	(No., Street, County, S	tate and Zip Code)			ICITATION NO.
FAIRFAX VA 22030-4444			9B. DATED (S		
			X W911NF-04-1-	0447	
CODE 7X764	FACILITY COD	E	X 01-Nov-2004	(0221.3	5)
		PPLIES TO AMENDMENTS OF SOLIC	CITATIONS		
The above numbered solicitation is amended as set forth	in Item 14. The hour and o	late specified for receipt of Offer	is extended,	is not exten	ded.
Offer must acknowledge receipt of this amendment prio	r to the hour and date speci	fied in the solicitation or as amended by one oftl	he following methods:	_	
(a) By completing Items 8 and 15, and returning		t; (b) By acknowledging receipt of this amendme			
or (c) By separate letter or telegram which includes a re RECEIVED AT THE PLACE DESIGNATED FOR TH				TO BE	
REJECTION OF YOUR OFFER. If by virtue of this am				tter,	
provided each telegramor letter makes reference to the s	solicitation and this amend	ment, and is received prior to the opening hour a	nd date specified.		
12. ACCOUNTING AND APPROPRIATION DA	ATA (If required)				
		O MODIFICATIONS OF CONTRACTS			
		T/ORDER NO. AS DESCRIBED IN ITE			_
A. THIS CHANGE ORDER IS ISSUED PURSU CONTRACT ORDER NO. IN ITEM 10A.	JANT TO: (Specify at	thority) THE CHANGES SET FORTH	IN ITEM 14 ARE N	AADE IN TH	lE .
B. THE ABOVE NUMBERED CONTRACT/O office, appropriation date, etc.) SET FORT	H IN ITEM 14, PURS	WANT TO THE AUTHORITY OF FA	VE CHANGES (such R 43.103(B).	as changes in	paying
C. THIS SUPPLEMENT AL AGREEMENT IS	ENTERED INTO PU	RSUANT TO AUTHORITY OF:			
X D. OTHER (Specify type of modification and unilateral; Grant Provisions	authority)				
E. IMPORTANT: Contractor X is not,	is required to sign	this document and return	copies to the issuin	g office.	
14. DESCRIPTION OF AMENDMENT/MODIFI	CATION (Organized)	by UCF section headings, including solic	itation/contract sub	ect matter	
where feasible.) Modification Control Number: terryk08269	_		•		
The purpose of this modification is to no cost a 2007, as follows:	extend the performand	ce period in accordance with the Recip	pient's letter dated	7 October	
FROM: 1 November 2004 - 31 October 2007	TO: 1 November 20	004 - 30 April 2008			
·					
P-45810-MA GOR: Dr. Chris Arney					
Pl: Dr. Edward Wegman					
					ĺ
Except as provided herein, all terms and conditions of the do	ocument referenced in Item 9	A or 10A, as heretofore changed, remains unchar	nged and in full force and	l effect.	
15A. NAME AND TITLE OF SIGNER (Type or print) 16A. NAME AND TITLE OF CONTRACTING OF KATHRYN C. TERRY/ GRANTS/CONTRACTING OFFICER					r print)
		TEL: 919-549-4337	EMAIL: kathy.terry.		
15B. CONTRACT OR/OFFEROR	15C. DATE SIGNEI	16B. UNITED STATES OF AMEI		اليوم	DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Of	ficer)	02	-1404-2007
EXCEPTION TO SF 30	3	0-105-04			RM 30 (Rev. 10-83)
APPROVED BY OIRM 11-84				scribed by GS R (48 CFR) 5	

W911NF-04-1-0447 P00003 Page 2 of 2