### BUDGET REQUEST FOR FISCAL YEAR ENDING JUNE 30, 2013



JM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEA AGENCY ADDR	· · · · · · · · · · · · · · · · · · ·	15		. JONES, CHANCE	LLOK
	Actual Expenses FY Ending June 30, 2011	Estimate Expenses FY Ending June 30, 2012	Requested for FY Ending June 30, 2013	Requeste Increase (+) or I FY 2013 vs. I (Col. 3 vs. 0	ecrease (-) Y 2012
I. A. PERSONAL SERVICES				AMOUNT	PERCENT
1. Salaries, Wages & Fringe Benefits (Base)	271,221	370,679	370,679		
a. Additional Compensation		_	17,420		
b. Proposed Vacancy Rate (Dollar Amount)					
c. Per Diem					
Total Salaries, Wages & Fringe Benefits 2. Travel	271,221	370,679	388,099	17,420	4.69
a. Travel & Subsistence (In-State)	895	3,000	3,000		
b. Travel & Subsistence (Out-of-State)	14,105	17,000	17,000		
c. Travel & Subsistence (Out-of-Country)					
Total Travel	15,000	20,000	20,000		
B. CONTRACTUAL SERVICES (Schedule B): a. Tuition, Rewards & Awards					
b. Communications, Transportation & Utilities	9	150	150		
c. Public Information	217	500	500		
d. Rents	500	500	500		
e. Repairs & Service			500		
f. Fees, Professional & Other Services	416	500	500		
g. Other Contractual Services h. Data Processing	750	87,600	87.600		
i. Other	/4,100	07,000	07,000		
Total Contractual Services	76,000	90.000	90,000		
C. COMMODITIES (Schedule C):	70,000	,000	,000		
a. Maintenance & Construction Materials & Supplies					
b. Printing & Office Supplies & Materials	540	2,500	2,500		
c. Equipment, Repair Parts, Supplies & Accessories	828	2,500	3,500	1,000	40.00
d. Professional & Scientific Supplies & Materials	1,732	4,000	4.000		
e. Other Supplies & Materials Total Commodities	3,100	9,000	10.000	1,000	11.11
D. CAPITAL OUTLAY: 1. Total Other Than Equipment (Schedule D-1) 2. Equipment (Schedule D-2):					
b. Road Machinery, Farm & Other Working Equipment c. Office Machines, Furniture, Fixtures & Equipment					
d. IS Equipment (Data Processing & Telecommunications)	282,100	125,380	236,296	110,916	88.46
e. Equipment - Lease Purchase f. Other Equipment					
Total Equipment (Schedule D-2)	282,100	125,380	236,296	110,916	88.46
3. Vehicles (Schedule D-3)					
4. Wireless Comm. Devices (Schedule D-4)					
E. SUBSIDIES, LOANS & GRANTS (Schedule E):	80,240	76,219	92,380	16,161	21.20
FOTAL EXPENDITURES	727,661	691,278	836,775	145,497	21.04
II. BUDGET TO BE FUNDED AS FOLLOWS:					
Cash Balance-Unencumbered	727,661	691,278	926 775	145,497	21.04
General Fund Appropriation (Enter General Fund Lapse Below) State Support Special Funds	/2/,001	091,278	836,775	145,497	21.04
Tradewal Peruda					
Other Special Funds (Specify)					
Less: Estimated Cash Available Next Fiscal Period					
TOTAL FUNDS (equals Total Expenditures above) GENERAL FUND LAPSE	727,661	691,278	836,775	145,497	21.04
III. PERSONNEL DATA         a.) Full Perm           Number of Positions Authorized in Appropriation Bill         b.) Full T-L	6	6	7	1	16.66
c.) Part Perm.					
d.) Part T-L Avarage Annual Vacancy Pata (Parcentege)					
Average Annual Vacancy Rate (Percentage)         a.) Full Perm           b.) Full T-L					
c.) Part Perm.					
d.) Part T-L					
u./1at1=L					

Phone Number: <u>662-915-5</u>019

Date: July 26, 2011

# Name of Agency UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

Specify Funding Sources As Shown Below	FY 2011 Actual Amount	% Of Line Item	% Of Total Budget	FY 2012 Estimated Amount	% Of Line Item	% Of Total Budget	FY 2013 Requested Amount	% Of Line Item	% Of Total Budget
1. General	271,221				100.00%		388,099		
2. Budget Contingency Fund	271,221	100.0070	-	570,077	100.0070	-	300,077	100.0070	
3. Education Enhancement Fund			-			-			
4. Health Care Expendable Fund			-			-			
5. Tobacco Control Fund			-			-			
			-			-			
6. ARRA - Education, Disc., FMAP			-			-			
7. Hurricane Disaster Reserve Fund			-			-			
8. Federal Other Special (Specify)			-			-			
9.			-			-			
10.			-			-			
11.			-			-			
12.									
Total Salaries	271,221		37.27%	370,679		53.62%	388,099		46.38
1. General State Support Special (Specify)	15,000	100.00%		20,000	100.00%	_	20,000	100.00%	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. ARRA - Education, Disc., FMAP									
7. Hurricane Disaster Reserve Fund									1
8. Federal Other Service (Service)						_			
9. Other Special (Specify)			-			-			
10.									
11.			-			-			
12.			-			-			
Total Travel	15,000		2.06%	20,000		2.89%	20,000		2.39
1 General	,	100.00%	2.0070	,	100.00%	2.0770	,	100.00%	2.07
2. Budget Contingency Fund	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100.0070	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100.0070	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10010070	
3. Education Enhancement Fund			-			-			
			-			-			
4. Health Care Expendable Fund			-			-			
5. Tobacco Control Fund			-			-			
6. ARRA - Education, Disc., FMAP			-			-			
7. Hurricane Disaster Reserve Fund			-			-			
8. Federal Other Special (Specify)			-			-			
9.			-			-			
10.			-			-			
11.			-			-			
12.									
Total Contractual	76,000		10.44%	90,000		13.01%	90,000		10.75
1. General State Support Special (Specify)	3,100	100.00%		9,000	100.00%		10,000	100.00%	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund			-			-			
5. Tobacco Control Fund									
6. ARRA - Education, Disc., FMAP									
7. Hurricane Disaster Reserve Fund									
8. Federal									
9. Other Special (Specify)			-			-			
			-						
10.			-			-			
11.			-						
12. <b>T</b>			0.4224	~ ^ ^ ~		1.2021	40.000		
Total Commodities	3,100		0.42%	9,000		1.30%	10,000		1.19

# Name of Agency UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

Specify Funding Sources As Shown Below	FY 2011 Actual Amount	% Of Line Item	% Of Total Budget	FY 2012 Estimated Amount	% Of Line Item	% Of Total Budget	FY 2013 Requested Amount	% Of Line Item	% Of Total Budget
1. General grad grad and the state									
2. Budget Contingency Fund			=						
3. Education Enhancement Fund									
4. Health Care Expendable Fund			-						
5. Tobacco Control Fund			-						
6. ARRA - Education, Disc., FMAP			-						
7. Hurricane Disaster Reserve Fund			-						
8. Federal			-						
9. Other Special (Specify)			-						
10.			-						
11.			-						
12.			-						
Total Other Than Equipment									
1 General	282,100	100.00%		125,380	100.00%		236,296	100.00%	
2. Budget Contingency Fund	,		-	,					
3. Education Enhancement Fund			-						
4. Health Care Expendable Fund			-						
5. Tobacco Control Fund			-						
6. ARRA - Education, Disc., FMAP			-						
7. Hurricane Disaster Reserve Fund			-						
8. Federal			-						
9. Other Special (Specify)			-						
10.			-						
11.			-						
12.			-						
Total Equipment	282,100		38.76%	125,380		18.13%	236,296		28.23
1. General	202,100		50.70 /0	125,500		10.15 /0	250,290		20.25
State Support Special (Specify)			-						
2. Budget Contingency Fund			-						
3. Education Enhancement Fund			-						
3. Education Enhancement Fund     4. Health Care Expendable Fund			-						
3. Education Enhancement Fund     4. Health Care Expendable Fund     5. Tobacco Control Fund			- - -						
<ol> <li>Education Enhancement Fund</li> <li>Health Care Expendable Fund</li> <li>Tobacco Control Fund</li> <li>ARRA - Education, Disc., FMAP</li> </ol>			- - - -						
<ol> <li>Education Enhancement Fund</li> <li>Health Care Expendable Fund</li> <li>Tobacco Control Fund</li> <li>ARRA - Education, Disc., FMAP</li> <li>Hurricane Disaster Reserve Fund</li> </ol>			- - - - - -						
3. Education Enhancement Fund     4. Health Care Expendable Fund     5. Tobacco Control Fund     6. ARRA - Education, Disc., FMAP     7. Hurricane Disaster Reserve Fund     8. Federal     Other Special (Specify)			-						•
3. Education Enhancement Fund         4. Health Care Expendable Fund         5. Tobacco Control Fund         6. ARRA - Education, Disc., FMAP         7. Hurricane Disaster Reserve Fund         8. Federal         Other Special (Specify)         9.									· · ·
3. Education Enhancement Fund     4. Health Care Expendable Fund     5. Tobacco Control Fund     6. ARRA - Education, Disc., FMAP     7. Hurricane Disaster Reserve Fund     8. Federal     Other Special (Specify)     9.     10.									
3. Education Enhancement Fund         4. Health Care Expendable Fund         5. Tobacco Control Fund         6. ARRA - Education, Disc., FMAP         7. Hurricane Disaster Reserve Fund         8. Federal         9.         10.         11.									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal 9. 10. 11. 12.									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. Total Vehicles									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. 12. 13. 14. 15. 15. 16. 16. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. Total Vehicles 1. General State Support Special (Specify) 2. Budget Contingency Fund									
3. Education Enhancement Fund     4. Health Care Expendable Fund     5. Tobacco Control Fund     6. ARRA - Education, Disc., FMAP     7. Hurricane Disaster Reserve Fund     8. Federal     Other Special (Specify)     9.     10.     11.     12.     Total Vehicles     1. General     State Support Special (Specify)     2. Budget Contingency Fund     3. Education Enhancement Fund									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. Total Vehicles 1. General State Support Special (Specify) 2. Budget Contingency Fund 3. Education Enhancement Fund 4. Health Care Expendable Fund									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. Total Vehicles 1. General State Support Special (Specify) 2. Budget Contingency Fund 3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. Total Vehicles 1. General State Support Special (Specify) 2. Budget Contingency Fund 3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9									
3. Education Enhancement Fund  4. Health Care Expendable Fund  5. Tobacco Control Fund  6. ARRA - Education, Disc., FMAP  7. Hurricane Disaster Reserve Fund  8. Federal Other Special (Specify)  9.  10.  11.  12.  Total Vehicles  1. General State Support Special (Specify)  2. Budget Contingency Fund  3. Education Enhancement Fund  4. Health Care Expendable Fund  5. Tobacco Control Fund  6. ARRA - Education, Disc., FMAP  7. Hurricane Disaster Reserve Fund  8. Federal  8. Federal  9.  9.  9.  9.  9.  9.  9.  9.  9.  9									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9									
3. Education Enhancement Fund         4. Health Care Expendable Fund         5. Tobacco Control Fund         6. ARRA - Education, Disc., FMAP         7. Hurricane Disaster Reserve Fund         8. Federal         0.         10.         11.         12.         Total Vehicles         1. General									
3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9. 10. 11. 12. Total Vehicles 1. General State Support Special (Specify) 2. Budget Contingency Fund 3. Education Enhancement Fund 4. Health Care Expendable Fund 5. Tobacco Control Fund 6. ARRA - Education, Disc., FMAP 7. Hurricane Disaster Reserve Fund 8. Federal Other Special (Specify) 9.									

# Name of Agency UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

Specify Funding Sources As Shown Below	FY 2011 Actual Amount	% Of Line Item	% Of Total Budget	FY 2012 Estimated Amount	% Of Line Item	% Of Total Budget	FY 2013 Requested Amount	% Of Line Item	% Of Total Budget
1. General State Support Special (Specify)	80,240	100.00%		76,219	100.00%		92,380	100.00%	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. ARRA - Education, Disc., FMAP									
7. Hurricane Disaster Reserve Fund									
8. Federal Other Special (Specify)									
9.									
10.									
11.									
12.									
Total Subsidies, Loans & Grants	80,240		11.02%	76,219		11.02%	92,380		11.04%
1. General State Support Special (Specify)	727,661	100.00%		691,278	100.00%		836,775	100.00%	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. ARRA - Education, Disc., FMAP									
7. Hurricane Disaster Reserve Fund									
8. Federal Other Special (Specify)									
9.									
10.									
11.									
12.									
TOTAL	727,661		100.00%	691,278		100.00%	836,775		100.00%

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# UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

Name of Agency

S. STATE SUPPORT SPECIAL FUNDS Source (Fund Number)	Detailed Description of Source	(1) Actual Revenues FY 2011	(2) Estimated Revenues FY 2012	(3) Requested Revenues FY 2013
	Cash Balance-Unencumbered			
Budget Contingency Fund	BCF - Budget Contingency Fund			
Education Enhancement Fund	EEF - Education Enhancement Fund			
Health Care Expendable Fund	HCEF - Health Care Expendable Fund			
Tobacco Control Fund	TCF - Tobacco Control Fund			
ARRA - Education, Discretionary, FMAP	ARRA - Education, Discretionary, FMAP			
Hurricane Disaster Reserve Fund	HDRF - Hurricane Disaster Reserve Fund			
	Section S TOTAL			

A. FEDERAL FUNDS* Source (Fund Number)	Detailed Description of Source	Percentage Match Requirement FY 2012 FY 2013		(1) Actual Revenues FY 2011	(2) Estimated Revenues FY 2012	(3) Requested Revenues FY 2013
	Cash Balance-Unencumbered					
	Section A TOTAL					

B. OTHER SPECIAL FUNDS (NON-FED'L) Source (Fund Number)	Detailed Description of Source	(1) Actual Revenues FY 2011	(2) Estimated Revenues FY 2012	(3) Requested Revenues FY 2013
	Cash Balance-Unencumbered			
	Section B TOTAL			
	Section S + A + B TOTAL			

C. TREASURY FUND/BANK ACCOUNTS*	Fund/Account	Name of Bank	(1) Reconciled Balance	(2) Balance	(3) Balance
Name of Fund/Account	Number	(If Applicable)	as of 6/30/11	as of 6/30/12	as of 6/30/13

\* Any non-federal funds that have restricted uses must be identified and narrative of restrictions attached.

### NARRATIVE OF SPECIAL FUNDS DETAIL AND TREASURY FUND/BANK ACCOUNTS

UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH Name of Agency

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

#### AGENCY

### Program No.\_\_\_\_\_ of \_\_\_\_ Programs

### SUMMARY OF ALL PROGRAMS

PROGRAM

	FY 2011 Actual						
_	(1) General	(2) State Support Special	(3) Federal	(4) Other Special	(5) Total		
Salaries, Wages, Fringe	271,221				271,221		
Travel	15,000				15,000		
Contractual Services	76,000				76,000		
Commodities	3,100				3,100		
Other Than Equipment							
Equipment	282,100				282,100		
Vehicles							
Wireless Comm. Devs.							
Subsidies, Loans & Grants	80,240				80,240		
Total	727,661				727,661		
No. of Positions (FTE)	5.22				5.22		

	FY 2012 Estimate					
	(6) General	(7) State Support Special	(8) Federal	(9) Other Special	(10) Total	
Salaries, Wages, Fringe	370,679				370,679	
Travel	20,000				20,000	
Contractual Services	90,000				90,000	
Commodities	9,000				9,000	
Other Than Equipment						
Equipment	125,380				125,380	
Vehicles						
Wireless Comm. Devs.						
Subsidies, Loans & Grants	76,219				76,219	
Total	691,278				691,278	
No. of Positions (FTE)	5.83				5.83	

	FY 2013 Increase/Decrease for Continuation							
	(11) General	(12) State Support Special	(13) Federal	(14) Other Special	(15) Total			
Salaries, Wages, Fringe	17,420				17,420			
Travel								
Contractual Services								
Commodities	1,000				1,000			
Other Than Equipment								
Equipment	110,916				110,916			
Vehicles								
Wireless Comm. Devs.								
Subsidies, Loans & Grants	16,161				16,161			
Total	145,497				145,497			
No. of Positions (FTE)	1.00				1.00			

Note: FY2013 Total Request = FY2012 Estimated + FY2013 Incr(Decr) for Continuation + FY2013 Expansion/Reduction of Existing Activities + FY2013 New Activities.

### SUMMARY OF ALL PROGRAMS

Page 2

PROGRAM

	FY 2013 Expansion/Reduction of Existing Activities							
-	(16) General	(17) State Support Special	(18) Federal	(19) Other Special	(20) Total			
Salaries, Wages, Fringe								
Travel								
Contractual Services								
Commodities								
Other Than Equipment								
Equipment								
Vehicles								
Wireless Comm. Devs.								
Subsidies, Loans & Grants								
Total								
No. of Positions (FTE)								

	FY 2013 New Activities							
	(21) General	(22) State Support Special	(23) Federal	(24) Other Special	(25) Total			
Salaries, Wages, Fringe								
Travel								
Contractual Services								
Commodities								
Other Than Equipment								
Equipment								
Vehicles								
Wireless Comm. Devs.								
Subsidies, Loans & Grants								
Total								
No. of Positions (FTE)								

	FY 2013 Total Request						
	(26) General	(27) State Support Special	(28) Federal	(29) Other Special	(30) Total		
Salaries, Wages, Fringe	388,099				388,099		
Travel	20,000				20,000		
Contractual Services	90,000				90,000		
Commodities	10,000				10,000		
Other Than Equipment							
Equipment	236,296				236,296		
Vehicles							
Wireless Comm. Devs.							
Subsidies, Loans & Grants	92,380				92,380		
Total	836,775				836,775		
No. of Positions (FTE)	6.83				6.83		

Note: FY2013 Total Request = FY2012 Estimated + FY2013 Incr(Decr) for Continuation + FY2013 Expansion/Reduction of Existing Activities + FY2013 New Activities.

### SUMMARY OF PROGRAMS FORM MBR-1-03sum

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

Agency Name

### FUNDING REQUESTED FISCAL YEAR 2013

	PROGRAM	GENERAL	ST.SUPP.SPECIAL	FEDERAL	OTHER SPECIAL	TOTAL
1	ACADEMIC SUPPORT	836,775				836,775
	SUMMARY OF ALL PROGRAMS	836,775				836,775

Program No. 1 of 1 Programs

ACADEMIC SUPPORT

PROGRAM

	FY 2011 Actual						
_	(1) General	(2) State Support Special	(3) Federal	(4) Other Special	(5) Total		
Salaries, Wages, Fringe	271,221				271,221		
Travel	15,000				15,000		
Contractual Services	76,000				76,000		
Commodities	3,100				3,100		
Other Than Equipment							
Equipment	282,100				282,100		
Vehicles							
Wireless Comm. Devs.							
Subsidies, Loans & Grants	80,240				80,240		
Total	727,661				727,661		
No. of Positions (FTE)	5.22				5.22		

	FY 2012 Estimate						
	(6) General	(7) State Support Special	(8) Federal	(9) Other Special	(10) Total		
Salaries, Wages, Fringe	370,679				370,679		
Travel	20,000				20,000		
Contractual Services	90,000				90,000		
Commodities	9,000				9,000		
Other Than Equipment							
Equipment	125,380				125,380		
Vehicles							
Wireless Comm. Devs.							
Subsidies, Loans & Grants	76,219				76,219		
Total	691,278				691,278		
No. of Positions (FTE)	5.83				5.83		

	FY 2013 Increase/Decrease for Continuation							
	(11) General	(12) State Support Special	(13) Federal	(14) Other Special	(15) Total			
Salaries, Wages, Fringe	17,420				17,420			
Travel								
Contractual Services								
Commodities	1,000				1,000			
Other Than Equipment								
Equipment	110,916				110,916			
Vehicles								
Wireless Comm. Devs.								
Subsidies, Loans & Grants	16,161				16,161			
Total	145,497				145,497			
No. of Positions (FTE)	1.00				1.00			

Note: FY2013 Total Request = FY2012 Estimated + FY2013 Incr(Decr) for Continuation + FY2013 Expansion/Reduction of Existing Activities + FY2013 New Activities.

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

#### AGENCY

### ACADEMIC SUPPORT

PROGRAM

	FY 2013 Expansion/Reduction of Existing Activities							
	(16) General	(17) State Support Special	(18) Federal	(19) Other Special	(20) Total			
Salaries, Wages, Fringe								
Travel								
Contractual Services								
Commodities								
Other Than Equipment								
Equipment								
Vehicles								
Wireless Comm. Devs.								
Subsidies, Loans & Grants								
Total								
No. of Positions (FTE)								

	FY 2013 New Activities							
-	(21) General	(22) State Support Special	(23) Federal	(24) Other Special	(25) Total			
Salaries, Wages, Fringe								
Travel								
Contractual Services								
Commodities								
Other Than Equipment								
Equipment								
Vehicles								
Wireless Comm. Devs.								
Subsidies, Loans & Grants								
Total								
No. of Positions (FTE)								

	FY 2013 Total Request						
-	(26) General	(27) State Support Special	(28) Federal	(29) Other Special	(30) Total		
Salaries, Wages, Fringe	388,099				388,099		
Travel	20,000				20,000		
Contractual Services	90,000				90,000		
Commodities	10,000				10,000		
Other Than Equipment							
Equipment	236,296				236,296		
Vehicles							
Wireless Comm. Devs.							
Subsidies, Loans & Grants	92,380				92,380		
Total	836,775				836,775		
No. of Positions (FTE)	6.83				6.83		

Note: FY2013 Total Request = FY2012 Estimated + FY2013 Incr(Decr) for Continuation + FY2013 Expansion/Reduction of Existing Activities + FY2013 New Activities.

AGENCY							P	PROGRAM NAME
	Α	В	С	D	Е	F	G	н
	FY 2012	Escalations	Non-Recurring	Restoration	Total	FY 2013		
EXPENDITURES:	Appropriation	By DFA	Items		Funding Change	Total Request		
SALARIES	370,679	,		17,420	17,420	388,099		
GENERAL	370,679			17,420	17,420	388,099		
ST.SUP.SPECIAL	,							
FEDERAL								
OTHER								
TRAVEL	20,000					20,000		
GENERAL	20,000					20,000		
ST.SUP.SPECIAL	20,000					20,000		
FEDERAL								
OTHER								
CONTRACTUAL	90,000					90,000		+
GENERAL	90,000					90,000		+
ST.SUP.SPECIAL	90,000					90,000		
FEDERAL								
OTHER								
COMMODITIES	9,000			1,000	1,000	10,000		
GENERAL	9,000			1,000	1,000	10,000		
ST.SUP.SPECIAL	9,000			1,000	1,000	10,000		
FEDERAL								
OTHER								
CAPITAL-OTE								
GENERAL								
ST.SUP.SPECIAL								
FEDERAL								
OTHER	105 000			110.017	110.017	226.206		
EQUIPMENT	125,380			110,916	110,916	236,296		
GENERAL	125,380			110,916	110,916	236,296		
ST.SUP.SPECIAL								
FEDERAL								
OTHER								
VEHICLES								
GENERAL								_
ST.SUP.SPECIAL								_
FEDERAL								
OTHER								_
WIRELESS DEV								
GENERAL								
ST.SUP.SPECIAL								
FEDERAL								
OTHER								
SUBSIDIES	76,219			16,161	16,161	92,380		
GENERAL	76,219			16,161	16,161	92,380		
ST.SUP.SPECIAL								
FEDERAL								
OTHER								
TOTAL	(01.000		1	1 45 405	4.45.405	026		

#### FUNDING:

TOTAL

691,278

GENERAL FUNDS	691,278		145,497	145,497	836,775	
ST.SUP.SPCL.FUNDS						
FEDERAL FUNDS						
OTHER SP.FUNDS						
TOTAL	691,278		145,497	145,497	836,775	

145,497

145,497

836,775

#### **POSITIONS:**

GENERAL FTE	5.83		1.00	1.00	6.83	
ST.SUP.SPCL.FTE						
FEDERAL FTE						
OTHER SP FTE						
TOTAL FTE	5.83		1.00	1.00	6.83	

PRIORITY LEVEL:

1

# **PROGRAM NARRATIVE**

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994 (To Accompany Form MBR-1-03)

### **UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING**

1 - ACADEMIC SUPPORT

PROGRAM NAME

AGENCY NAME

I. Program Description:

The MCSR (Supercomputer) provides to all faculty, students, and staff at all state-supported institutions governed by the Board of Trustees of Institutions of Higher Learning the following:

(1) Access to high-performance, shared-memory supercomputers, distributed memory cluster computers, and hybrid systems

(2) Access to appropriate software, including scientific/applications software, compilers, and utilities

(3) Access to technical assistance and instruction as required by students and faculty

### II. Program Objective:

The MCSR objective is to provide a computational resource for research and instruction; to run that resource as effectively, efficiently, and securely as possible; and to provide the high level of technical assistance required to facilitate the winning of highly competitive research grants, the completion of graduate thesis and dissertation research, and the graduation of students who are prepared to compete for high tech jobs.

III. Current program activities as supported by the funding in Columns 6-15 (FY 12 Estimated & FY 13 Increase/Decrease for continuations) of MBR-1-03 and designated Budget Unit Decisions columns of MBR-1-03-A:

(D) Restoration:

The request reflects an increase of \$145,497. Most of this increase is for upgrading the supercomputing equipment to be used by researchers. There are also increases of \$16,161 for increased utility costs; \$1,000 for purchase of additional commodities, including basic office supplies and software; and \$17,420 to hire two additional student workers to provide low-cost support and training for researchers.

### PROGRAM PERFORMANCE INDICATORS AND MEASURES

### Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic

Planning Act of 1994

UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING	1 - ACADEMIC SUPPORT
AGENCY NAME	PROGRAM NAME
PROGRAM OUTPUTS: (This is the measure of the process	necessary to carry out the goals and objectives of this

program. This is the volume produced, i.e., how many people served, how many documents generated.)

0		•	e ,	
		FY 2011	FY 2012	FY 2013
		ACTUAL	ESTIMATED	PROJECTED
1	Central Processing Hours Generated, All Systems	4,191,570.00	6,000,000.00	8,000,000.00
2	Batch Jobs Processed, All Systems	257,961.00	80,000.00	100,000.00
3	Number of New Research Accounts Added	316.00	200.00	200.00
4	Funded Research Supported by MCSR (\$s)	14,416,633.00	15,000,000.00	15,000,000.00
5	Number of University Courses Supported with MCSR	4.00	8.00	8.00
	Resources			
6	Number of Students & Faculty Trained at MCSR Workshops	88.00	250.00	300.00
7	Total Amount of Federal Grants, Contracts, & Allocations	324,181.00	500,000.00	1,000,000.00
	Requested for MCSR by IHLs in Submitted Applications			
8	Total Amount of Federal Grants, Contracts, & Allocations	273,427.00	250,000.00	250,000.00
	Released to (or spent for) MCSR from Grant Awards to IHLs			
9	Total Amount of Federal Grants, Contracts, & Allocations	426,596.00	2,000,000.00	3,000,000.00
	Requested for MS IHLs in Proposals Submitted in			
	Collaboration with MCSR			

**PROGRAM EFFICIENCIES:** (This is the measure of the cost, unit cost or productivity associated with a given outcome or output. This measure indicates linkage between services and funding, i.e., cost per investigation, cost per student or number of days to complete investigation.)

		FY 2011 ACTUAL	FY 2012 ESTIMATED	FY 2013 PROJECTED
1	Cost per CPU Hour - All Systems	0.17	0.12	0.10
2	Return of Investment to Mississippi (\$'s Research Grants/\$'s	19.81	21.00	18.00
	MCSR Budget)			

**PROGRAM\_OUTCOMES:** (This is the measure of the quality or effectiveness of the services provided by this program. This measure provides an assessment of the actual impact or public benefit of your agency's actions. This is the results produced, i.e., increased customer satisfaction by x% within a 12-month period, reduce the number of traffic fatalities due to drunk drivers within a 12-month period.)

		FY 2011 ACTUAL	FY 2012 ESTIMATED	FY 2013 PROJECTED
1	To continue to provide access to well-maintained high performance computing systems (xx%)	100.00	100.00	100.00
2	To continue to provide the applications software and compilers requested by MCSR users (xx%)	100.00	100.00	100.00
3	To continue to provide access to highly-qualified technical staff for assistance and instruction	100.00	100.00	100.00

### PROGRAM 3% GENERAL FUND REDUCTION AND NARRATIVE EXPLANATION

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

		Fisc	cal Year 2012 Funding		FY 2012 GF				
		Total Funds	Reduced Amount	Reduced Funding Amount	PERCENT REDUCED				
Program Name: (1) ACADEMIC SUPPORT									
	GENERAL	691,278	( 20,738)	670,540	( 2.99%				
	ST.SUPPORT SPECIAL								
	FEDERAL								
	OTHER SPECIAL								
	TOTAL	691,278	( 20,738)	670,540					
Out of s	Explanation: tate travel to be reduced by Purchases of new supercom			•	be reduced by				
Out of s \$2,287.	-			•	be reduced by				
Out of s \$2,287.	tate travel to be reduced by Purchases of new supercom			•	be reduced by				
Dut of s 52,287.	tate travel to be reduced by Purchases of new supercom	nputing equipment to b	e reduced by \$14,4	51.					
Dut of s 52,287.	tate travel to be reduced by Purchases of new supercon <b>RY OF ALL PROGRAMS</b> GENERAL	nputing equipment to b	e reduced by \$14,4	51.					
Dut of s 52,287.	tate travel to be reduced by Purchases of new supercom <b>RY OF ALL PROGRAMS</b> GENERAL           ST.SUPPORT SPECIAL	nputing equipment to b	e reduced by \$14,4	51.					

# Board of Trustees of Institutions of Higher Learning MEMBERS

#### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING

Agency

A. Explain Rate and manner in which board members are reimbursed:

Board members are reimbursed through the Institutions of Higher Learning System Administration budget with a per diem of \$40 plus expenses.

#### B. Estimated number of meetings FY2012

(twelve)				
Names of Members	City, Town, Residence	Appointed By	Date of Appointment	Length of Term
Dr. L. Stacy Davidson, Jr.	Cleveland, MS	Musgrove	May 2000	12 years
Dr. Bettye Neely	Grenada, MS	Musgrove	June 2000	12 years
Mr. Scott Ross	West Point, MS	Musgrove	May 2000	12 years
Ms. Amy Whitten	Oxford, MS	Musgrove	May 2000	12 years
Mr. Ed Blakeslee	Gulfport, MS	Barbour	May 2004	11 years
Mr. Bob Owens	Terry, MS	Barbour	May 2004	11 years
Mr. Aubrey Patterson	Tupelo, MS	Barbour	May 2004	11 years
Ms. Robin Robinson	Laurel, MS	Barbour	May 2004	11 years
Mr. Alan W. Perry	Jackson, MS	Barbour	May 2008	10 years
Ms. Christine L. Pickering	Biloxi, MS	Barbour	May 2008	10 years
Mr. C.D. Smith, Jr.	Meridian, MS	Barbour	May 2008	10 years
Dr. Douglas W. Rouse	Hattiesburg, MS	Barbour	May 2008	10 years
	Names of Members Dr. L. Stacy Davidson, Jr. Dr. Bettye Neely Mr. Scott Ross Ms. Amy Whitten Mr. Ed Blakeslee Mr. Bob Owens Mr. Aubrey Patterson Ms. Robin Robinson Mr. Alan W. Perry Ms. Christine L. Pickering Mr. C.D. Smith, Jr.	Names of MembersCity, Town, ResidenceDr. L. Stacy Davidson, Jr.Cleveland, MSDr. Bettye NeelyGrenada, MSMr. Scott RossWest Point, MSMs. Amy WhittenOxford, MSMr. Ed BlakesleeGulfport, MSMr. Bob OwensTerry, MSMr. Aubrey PattersonTupelo, MSMs. Robin RobinsonLaurel, MSMr. Alan W. PerryJackson, MSMs. Christine L. PickeringBiloxi, MSMr. C.D. Smith, Jr.Meridian, MS	Names of MembersCity, Town, ResidenceAppointed ByDr. L. Stacy Davidson, Jr.Cleveland, MSMusgroveDr. Bettye NeelyGrenada, MSMusgroveMr. Scott RossWest Point, MSMusgroveMs. Amy WhittenOxford, MSMusgroveMr. Ed BlakesleeGulfport, MSBarbourMr. Bob OwensTerry, MSBarbourMr. Aubrey PattersonTupelo, MSBarbourMs. Robin RobinsonLaurel, MSBarbourMr. Alan W. PerryJackson, MSBarbourMs. Christine L. PickeringBiloxi, MSBarbourMr. C.D. Smith, Jr.Meridian, MSBarbour	Names of MembersCity, Town, ResidenceAppointed ByDate of AppointmentDr. L. Stacy Davidson, Jr.Cleveland, MSMusgroveMay 2000Dr. Bettye NeelyGrenada, MSMusgroveJune 2000Mr. Scott RossWest Point, MSMusgroveMay 2000Ms. Amy WhittenOxford, MSMusgroveMay 2000Mr. Ed BlakesleeGulfport, MSBarbourMay 2004Mr. Bob OwensTerry, MSBarbourMay 2004Ms. Robin RobinsonLaurel, MSBarbourMay 2004Mr. Alan W. PerryJackson, MSBarbourMay 2008Ms. Christine L. PickeringBiloxi, MSBarbourMay 2008Mr. C.D. Smith, Jr.Meridian, MSBarbourMay 2008

Identify Statutory Authority (Code Section or Executive Order Number)\*

Constitutional Amendment 213A of the Constitution of the State of Mississippi

\*If Executive Order, please attach copy.

### **SCHEDULE B** CONTRACTUAL SERVICES

UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2011	(2) Estimated Expenses FY Ending June 30, 2012	(3) Requested for FY Ending June 30, 2013
A. TUITION, REWARDS & AWARDS (61010-61099)	1		
61010 Tuition			
61020 Employee Training			
TOTAL (A)			
B. TRANSPORTATION & UTILITIES (61100-61299)			
61110 Postage, Box Rent, etc.		50	5
611XX Transportation of Goods (61180-61190)	9	100	10
61210 Electricity			-
61220 Gas			
61230 Water & Sewage			
TOTAL (B)	9	150	15
C. PUBLIC INFORMATION ((61300-61399)			
61310 Advertising & Public Information	217	500	50
61340 Signs & Billboards			
61350 Exhibits & Displays			
TOTAL (C)	217	500	50
		500	50
D. RENTS (61400-61499) 61420 Building & Floor Space			
61430 Land			
61440 Office Equipment			
61460 Other Equipment			
61470 Capitol Facilities - Rental			
61480 Exhibits, Displays & Conference Rooms	500	500	50
TOTAL (D)	500	500	50
	500	500	50
E. REPAIRS & SERVICES (61500-61599) 61500 Grounds, Walks, Fences & Lots			
61520 Buildings			
61530 Machinery & Field Equipment			
61540 Motor Vehicles			
61550 Office Equipment & Furniture			
61580 Shop Equipment			
61590 Miscellaneous Items of Equipment			
TOTAL (E)			
F. FEES, PROFESSIONAL & OTHER SERVICES (61600-6169	99) 		
61610 Engineering 61615 SAAS Fees - DFA			
61616 MMRS Fees			
61620 Department of Audit			
6162X Accounting (61621-61624)			
6163X Legal (61630-61636)			
6164X Medical Services (61640-61646)			
61650 State Personnel Board			
6165X Personnel Services Contracts (61651-61653)			
61658 Personnel Services Contracts - SPAHRS			
6166X Court Costs & Reporters (61661-61666)			
61670 Laboratory & Testing Fees			
6168X Contract Worker (61682-61688)			

### SCHEDULE B CONTRACTUAL SERVICES CONTINUED

# UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2011	(2) Estimated Expenses FY Ending June 30, 2012	(3) Requested for FY Ending June 30, 2013
TOTAL (F)	416	500	500
G. OTHER CONTRACTUAL SERVICES (61700-61899)			
61700 Liability Insurance Pool Contributions (Tort Claims)			
61710 Insurance & Fidelity Bonds			
61715 Insurance Computer Equipment			
61720 Membership Dues	750	750	750
61721 Subscriptions			
TOTAL (G)	750	750	750
H. INFORMATION TECHNOLOGY (61900-61990)			
61902 IS Professional Fees - Outside Vendor		1,500	1,500
61905 IS Professional Fees - ITS			
6191X IS Training/Education (61914-61915)			
61917 Service Charges to State Data Center			
61918 Data Entry			
61921 Software Acquistion and Installation		10,000	10,000
61922 Basic Telephone Monthly - Outside Vendor	3,347	3,500	3,500
61923 Basic Telephone Monthly - ITS			
61924 Long Distance Charges - Outside Vendor	1	600	600
61925 Long Distance Charges - ITS			
61926 Private Data Line Monthly Charges - Outside Vendor			
61927 Private Data Line Monthly Charges - ITS			
61928 Public Network Access Charges - Outside Vendor	952	1,000	1,000
61929 Public Network Access Charges - ITS			
6193X IS Related Rentals (61932-61933)			
61938 Pager Usage Time - Outside Vendor			
61939 Cellular Usage Time - Outside Vendor			
61961 Maintenance/Repair of IS Equipment	4,064	1,000	1,000
61962 Maintenance/Repair of Telephone Systems (ITS)			
61980 Software Mainteance, Outside Vendor	65,744	70,000	70,000
TOTAL (H)	74,108	87,600	87,600
I. OTHER (61991-61999)			
6199X Prior Year Expense (61996-61998)			
61999 Contractual Services - No PO Required			
TOTAL (I)			
<b>GRAND TOTAL</b> (Enter on Line I-B of Form MBR-1)	76,000	90,000	90,000
FUNDING SUMMARY:			
GENERAL FUNDS	76,000	90,000	90,000
STATE SUPPORT SPECIAL FUNDS			
FEDERAL FUNDS			
OTHER SPECIAL FUNDS			
TOTAL FUNDS	76,000	90,000	90,000

#### SCHEDULE C COMMODITIES

UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2011	(2) Estimated Expenses FY Ending June 30, 2012	(3) Requested for FY Ending June 30, 2013
A. MAINTENANCE & CONSTR. MATERIALS & SUPPLIES (62010-62099	))		
62040 Lumber Parts			
62050 Steel & Other Metals			
62060 Paints			
Total (A)			
B. PRINTING & OFFICE SUPPLIES & MATERIALS (62100-62199)			
62110 Printing Binding	249	1,500	1,500
62120 Duplication & Reproduction Supplies		,	,
62130 Office Supplies & Materials	291	1,000	1,000
62140 Paper Supplies			
62150 Maps, Manuals, Library Books			
62160 Office Equipment (not capital outlay)			
Total (B)	540	2,500	2,500
C. EQUIPMENT REPAIR PARTS, SUPPLIES & ACCES. (62200-62299)		)- · · ·	, · · ·
62210 Fuels - Gasoline			
62251 Repair Vehicle			
62270 Radio & TV Supply & Repair			
62271 Repair of Comm Systems, Parts			
62290 Other Equipment Repair Parts			
62555 IT Repair Parts for Equipment	828	2,500	3,500
Total (C)	828	2,500	3,500
D. PROFESSIONAL & SCI. SUPPLIES AND MATERIALS (62300-62399)	020	2,500	5,500
62330 Photographic Supplies			
62340 Drugs & Chemicals - Medical & Lab Use			
62390 Other Professional Scientific			
Total (D)			
E.OTHER SUPPLIES & MATERIALS (62400-62999)			
62420 Hardware, Plumbing & Electrical			
62450 Janitor Supplies & Cleaning			
62460 Wearing Material			
62470 Food	1,732	1,000	1,000
62520 Decal Signs			
62530 Uniforms & Wearing Apparel			
62560 Eating Utensils			
62590 Other Supplies & Materials		3,000	3,000
62595 Other Equipment (less than \$1,000)			
62998 Prior year expense			
Total (E)	1,732	4,000	4,000
GRAND TOTAL (A, B, C, D & E) (Enter on Line I-C of Form MBR-1)	3,100	9,000	10,000
FUNDING SUMMARY:			
GENERAL FUNDS	3,100	9,000	10,000
STATE SUPPORT SPECIAL FUNDS			
FEDERAL FUNDS			
OTHER SPECIAL FUNDS			
TOTAL FUNDS	3,100	9,000	10,000

### SCHEDULE D-1 CAPITAL OUTLAY OTHER THAN EQUIPMENT

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2011	(2) Estimated Expenses FY Ending June 30, 2012	(3) Requested for FY Ending June 30, 2013
A. LANDS (63100-63199)			
63110 Land for Buildings			
63120 Land for Right-of-Way			
63130 Land for Aggregates			
63170 Land Purchased for Other Purposes			
TOTAL (A)			
B. BUILDINGS & IMPROVEMENTS (63200-63299)			
63250 Buildings - Purchased, Constructed, Remodeled			
TOTAL (B)			
C. INFRASTRUCTURE & OTHER (63500-63999)			
635XX Other			
TOTAL (C)			
<b>GRAND TOTAL</b> (Enter on Line I-D-1 of Form MBR-1)			
FUNDING SUMMARY:			
GENERAL FUNDS			
STATE SUPPORT SPECIAL FUNDS			
FEDERAL FUNDS			
OTHER SPECIAL FUNDS			
TOTAL FUNDS			

Name of Agency

### SCHEDULE D-2 CAPITAL OUTLAY EQUIPMENT

UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

	Act. FY E	nding June 30, 2011	Est. FY F	Ending June 30, 2012	Ree	q. FY Ending June 30,	2013
EQUIPMENT BY ITEM	No. of Units	Total Cost	No. of Units	Total Cost	No. of Units	Cost Per Unit	Total Cost
A. VEHICLES (see form MBR-1-D-3)							
B. ROAD MACHINERY, FARM & OTHER EQUIPMENT							
63320 Road Machinery							
TOTAL (B)	++						
C. OFFICE MACHINES, FURNITURE, FIXTURES, EQU	Р.						
63330 Office Equipment, Furniture							
TOTAL (C)							
D. IS EQUIPMENT (DP & TELECOMMUNICATIONS)							
63421 IT/IS Equipment	1	300					
Staff Laptop PC's (R)			2	5,000	2	2,500	5,000
Staff Desktop PC's (R)			1	2,000	1	2,000	2,000
SGI Altix XE Cluster Upgrade (N)	1	281,800	1	118,380			
Supercomputer Replacement Upgrade (R)					1	229,296	229,296
TOTAL (D)		282,100		125,380			236,296
E. EQUIPMENT - LEASE PURCHASE (63460-63476)							
63462 Lease-Purchase - Information Systems Equipment							
63463 Lease-Purchase - Telecom. Infrastructure / Equipment							
63468 Lease-Purchase - Telephone Equipment							
63469 Lease-Purchase - Two-way Radio Equipment							
63476 Lease-Purchase - Other Equipment							
TOTAL (E)							
F. OTHER EQUIPMENT							
63490 Other Equipment							
63396 Betterments or Accessories for Vehicles							
63495 Betterments or Accessories for Other than Vehicles							
TOTAL (F)						I	
<b>GRAND TOTAL</b> (Enter on Line 1-D-2 of Form MBR-1)		282,100		125,380			236,296
FUNDING SUMMARY:							
GENERAL FUNDS		282,100		125,380			236,296
STATE SUPPORT SPECIAL FUNDS		- ,		- ,			
FEDERAL FUNDS							
OTHER SPECIAL FUNDS							
TOTAL FUNDS		282,100		125,380			236,296

### SCHEDULE D-3 PASSENGER/WORK VEHICLES

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

	Vehicle Inventory	FY En	ding	June 30, 2011	FY En	ding June 30, 2012	FY Endi	ng June 30, 2013
MINOR OBJECT OF EXPENDITURE	June 30, 2011	No. of Vehicles		Actual Cost	No. of Vehicles	Estimated Cost	No. of Vehicles	Requested Cost
A. PASSENGER & WORK VEHICLES (63310, 63390-63	400)						1	
63310 Automobile, Compact Sedan (AU CS)								
63310 Automobile, Full Size Sedan (AU FS)								
63310 Automobile, Mid Size Sedan (AU MS)								
63310 Automobile, Mid Size Station Wagon (AU MW)								
63310 Automobile Utility (AU UT)								
63390 Truck, Carry-All (TK CA)								
63390 Truck, Compact Pickup (TK CU)								
63390 Truck, Dump Bed (TK DU)								
63390 Truck, Medium Duty 2.5 Ton (TK MD)								
63390 Truck, Mid Size Pickup (TK MU)								
63391 Truck, Heavy Duty 5 Ton (TK HD)								
63391 Truck, Heavy Duty Pickup (TK HU)								
63392 Sport Utility Vehicle (TK SU)								
63393 Van, Cargo (VN CD)								
63393 Van, Full Size (VN FV)								
63393 Van, Mid Size (VN MV)								
63400 Other Vehicles								
TOTAL (A)								
B. BETTERMENTS OR ACCESSORIES FOR VEHICLE	ES (63395)							
63395 Betterments or Accessories for Vehicles								
TOTAL (B)								
<b>GRAND TOTAL</b> (Enter on Line I-D-3 of Form MBR-1)								
FUNDING SUMMARY: GENERAL FUNDS								
STATE SUPPORT SPECIAL FUNDS								
FEDERAL FUNDS								
OTHER SPECIAL FUNDS								
TOTAL FUNDS								

#### SCHEDULE D-4 WIRELESS COMMUNICATION DEVICES

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

	Device Inventory	Act FY	Ending June 30, 2011	Est FY l	Ending June 30, 2012	Req FY	Ending June 30, 2013
MINOR OBJECT OF EXPENDITURE	June 30, 2011	No. of Devices	Actual Cost	No. of Devices	Estimated Cost	No. of Devices	Requested Cost
A. CELLULAR PHONES (63435)							
63435 Cellular Phones							
Total (A)							
B. PAGERS (63434)							
63434 Pagers, Paging Equipment							
Total (B)							
C. WIRELESS PERSONAL DIGITAL ASSISTANTS (63	3435)						
63435 Wireless PDAs, Blackberry, etc							
Total (C)							
<b>GRAND TOTAL</b> (Enter on Line I-D-4 of Form MBR-1)							
FUNDING SUMMARY:							
GENERAL FUNDS							
STATE SUPPORT SPECIAL FUNDS							
FEDERAL FUNDS							
OTHER SPECIAL FUNDS							
TOTAL FUNDS							

### SCHEDULE E SUBSIDIES, LOANS & GRANT

# UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2011	(2) Estimated Expenses FY Ending June 30, 2012	(3) Requested for FY Ending June 30, 2013
A. SCHOOL GRANTS TO COUNTIES & MUNICIPALITIES (6400	)-64599)		
TOTAL (A)			
B. GRANTS TO I.H.L. & OTHER POLITICAL SUBDIVISIONS (64	600-64699)		
TOTAL (B)			
C. GRANTS TO NON-GOVERNMENT INSTNS & INDS (64700-649	99)		
TOTAL (C)			
D. DEBT SERVICE & JUDGEMENTS (65000-65399)			
65040 Interest on Lease Purchases			
TOTAL (D)			
E. OTHER (66000-89999)			
Utility Costs	80,240	76,219	92,380
TOTAL (E)	80,240	76,219	92,380
<b>GRAND TOTAL</b> (Enter on Line I-E of Form MBR-1)	80,240	76,219	92,380
FUNDING SUMMARY:			
GENERAL FUNDS	80,240	76,219	92,380
STATE SUPPORT SPECIAL FUNDS			
FEDERAL FUNDS			
OTHER SPECIAL FUNDS			
TOTAL FUNDS	80,240	76,219	92,380

### NARRATIVE 2013 BUDGET REQUEST

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING

Name of Agency

#### MCSR Mission

The primary mission of the Mississippi Center for Supercomputing Research (MCSR) is to provide high performance computing (HPC) facilities and services to all of the Mississippi Institutions of Higher Learning (IHLs) in support of academic instruction and research.

#### Description of MCSR Resources & Services

The MCSR currently supports an SGI Altix 3700 shared memory supercomputer, an SGI Altix XE Multi-core Xeon Linux Cluster, a Web server, a distributed memory Intel P4-based Linux Cluster, network attached data storage devices, and a tape backup system. The supercomputers and clusters host a variety of mathematics scientific, and engineering applications, and sequential and parallel software development environments (MPI, C, C++, FORTRAN 90) for students and researchers. Any student or faculty member at any Mississippi IHL may have access to these systems at no charge for research or instructional use. Staff members provide operational support for these systems, as well as end-user support and training to the faculty and students who use them for research.

#### Value of MCSR Project to Mississippi

The primary benefit of the MCSR is its payoff in federal research funds; in FY11, the MCSR supported over \$19 in federal grants for every \$1 in the MCSR budget. The centralization of personnel and equipment resources also avoids duplicating these expenses at the individual campus level and gives an equality of access to any individual faculty member at the smaller institutions. A secondary benefit to Mississippi from the MCSR is the presence of a centralized technical staff, which is available to all of the institutions for matters including, but not limited to, high-performance computing. In particular, assistance has been provided to the smaller campuses in meeting many diverse needs: campus network strategic planning and installation, system administration of servers and workstations, e-mail services prior to campus e-mail server installation, and many other needs pertaining to UNIX system administration, e-mail issues, user instruction, and network issues. The institution-neutral position of the MCSR has made possible the winning of national grants, which placed networked personal computer laboratories at both Alcorn State University and Mississippi Valley State University. MCSR has also played a critical role in developing the Ph.D. program in Chemistry and the multidisciplinary Ph.D. program in Environmental Science at Jackson State University; and helped the JSU College of Science, Engineering, and Technology to meet the federal matching funds requirements for several key grants.

The MCSR has made major contributions in recent years to the implementation of advanced networking at many of the state's IHLs. In the last two years, the MCSR provided vital support to the research universities and the Office of the Governor to build or negotiate a 10X increase in inter-institutional network bandwidth, which will facilitate inter-institutional collaboration and allow Mississippi researchers to compete nationally for data-intensive research projects. Furthermore, in the past year the MCSR provided support for Mississippi's efforts to secure an Internet2 access point in Jackson, MS, enabling Mississippi universities to participate in this advanced national optical network on an equal footing with institutions around the nation.

#### Impact of Reduced or Increased Funding on MCSR

The MCSR has continued during each fiscal year to attempt to enable major hardware upgrades with the general goal of doubling the computing power each year within the existing budget levels. This is necessary to meet Mississippi researchers' demands for more comprehensive studies and greater physical realism in computer models, as they compete against researchers from other states for limited federal grants and contracts. However, the result of 10 straight years of decreasing or flat funding has been a 9-year decline in the competitiveness of supercomputing capacity that MCSR is able to offer to Mississippi researchers, compared to similar centers in other states, and has compromised the ability of the diminished support staff to invest in the emerging technologies (e.g. graphical

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Name of Agency

processing units) that will make Mississippi computational researchers nationally competitive in the upcoming years. Without a major supercomputer replacement and regular upgrades in ensuing years, and additional support staff and maintenance funds to support existing equipment, the computational scientists at most MS institutions will struggle to compete for research projects and grants, and the MCSR project ROI will decline.

What MCSR is Doing to Leverage Existing Funding While Mitigating Funding Reductions

In FY11, the MCSR was able to use lapsed salary funds from a vacant technical support position to procure a major hardware upgrade; as a result, for this year the MCSR met its annual goal to double computing power available at the Center. Unfortunately, this model for augmenting the equipment budget is not sustainable, and certain services offered by the MCSR (in particular user training services) were degraded by understaffing. The MCSR has accelerated efforts to augment state funding for supercomputing replacements by pursuing federal grants, contracts, and allocations, in collaboration with the research faculty and offices of the IHLs. MCSR is uniquely positioned to facilitate such collaborations, since the Center is institution-neutral, and has a great track record of operating shared equipment with great utilization and broad impact to institutions, researchers and students who are historically underserved by this type of resource. While these types of federal programs provide a possible alternative funding source for MCSR during lean budget years, for these proposals to be competitive, MCSR must demonstrate stable funding that will assure reviewers that sufficient technical staff and infrastructure will be available to support the proposed equipment through and beyond the grant period; MCSR cannot reasonably apply to many of the most attractive of these programs because their often leading-edge nature suggests a support burden that is not compatible with MCSR's current staffing levels, or because they require cost sharing of anywhere from 20 to 50% of total project fund. Therefore, the more state funds MCSR receives, the greater leverage the Center will have to secure additional funding to maximize resources offered to Mississippi faculty and students.

Success in Achieving Goals

The MCSR supported over 4.1M hours of computation and \$14.4 million in research contracts and grants during FY2011, on a budget of \$727,661, for a return on investment of \$19 to \$1, and at a cost of 17 cents per CPU hour.

Demand for supercomputing services continues to rise statewide, with 316 faculty and student research accounts added in the last year alone.

MCSR education, outreach, and collaboration initiatives broadened MCSR's impact statewide. MCSR supported class accounts for 4 courses in Fall 10 and Spring 11. In addition, 88 students and faculty received extra-curricular computational training at MCSR workshops during the year. For the 3rd straight summer, MCSR hosted a computational mini-camp for summer research students of the Summer Institute at Jackson State's Center for Interdisciplinary Nanotoxicity.

In FY2011, MCSR actively collaborated with researchers at MS IHLs in submitting over \$400,000 in federal research grant proposals.

MCSR falls significantly short of annual goals in three measures: the number of researchers trained in our workshops, and two measures related to collaborative grant writing and submission. Efforts in both of these areas were severely hampered by understaffing. MCSR has one full time, permanent position for a supercomputer user consultant or high performance computing specialist; the incumbent would, under ordinary circumstances, devote a great deal of time to both the user training and collaborative grant writing activities of the Center. This position was vacant for most of FY11 (from mid September through the end of the year). The position will be filled early in FY12; with the staff returned to full strength, MCSR expects to meet all annual goals for FY12.

FY2011 Additions to Facilities

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Sequoia, MCSR's SGI Altix XE Cluster, received a 38-node, 456-core upgrade in FY2011, increasing the power of that system by 132% and the overall computing power of MCSR by 132%. This upgrade was paid for by the MCSR's FY11 state allocation, with the original equipment budget for FY11 augmented by significant lapsed salary from a vacant user support position.

Justification for FY2013 Funding Request

Academic Support

The specific request for a FY2013 funding increase includes one Program Decision Unit:

1) Restoration -- This request reflects an increase of \$145,497, which includes \$110,916 for adding CPUs and memory to the SGI Altix XE cluster (Equipment) used by researchers, plus an increase of \$16,161 to cover increased utility costs (Subsidies/Transfers).

Salaries -- This request calls for an increase of \$17,420 in salaries for hiring two additional graduate student assistants for the 11/12 Academic Year. These students will provide expanded technical support, user training, and grant writing capabilities for the MCSR.

Travel -- No additional funds are requested for travel over FY2012 amount.

Contractual Services -- No additional funds are requested for contractual services over FY2012 amount.

Commodities -- This request calls for an increase of \$1,000 over the FY2012 amount for replacing outdated office equipment and user training materials.

### OUT-OF-STATE TRAVEL FISCAL YEAR 2011

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

### Agency Name

Note: All expenditures recorded on this form must be totaled and said total must agree with the out-of-state travel amount indicated for FY 2011 on Form Mbr-1, line I.A.2.b.

Employee's Name	Destination	Purpose	Travel Cost	Funding Source
Hopkins, Brian	Atlanta, GA	Internet2 Fall Member Meeting	1,150	General Fund
Hopkins, Brian	Arlington, VA	Internet2 Spring Member Meeting	2,007	General Fund
Hopkins, Brian	New Orleans, LA	Supercomputing 10 Conference	1,496	General Fund
Roach, David	New Orleans, LA	Supercomputing 10 Conference	2,550	General Fund
Henry, Rachel	New Orleans, LA	Supercomputing 10 Conference	1,977	General Fund
Henry, Rachel	Fremont, CA	SGI User Group Meeting 2011	1,638	General Fund
Hopkins, Brian	Fremont, CA	SGI User Group Meeting 2011	2,177	General Fund
Roach, David	Atlanta, GA	Internet2 Fall Member Meeting	1,110	General Fund
			¢14.105	

Total Out of State Travel Cost

\$14,105

# FEES, PROFESSIONAL AND OTHER SERVICES (EXPENDITURE CODES 61600-61699)

UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

61610 Engineering			
61615 SAAS Fees - DFA TOTAL 61615 SAAS Fees - DFA 61616 MMRS Fees			
TOTAL 61615 SAAS Fees - DFA		 	
TOTAL 61615 SAAS Fees - DFA			
61616 MMRS Fees			
TOTAL 61616 MMRS Fees			
61620 Department of Audit			
TOTAL 61620 Department of Audit		·	
6162X Accounting (61621-61624)			
TOTAL 6162X Accounting (61621-61624)			
6163X Legal (61630-61636)			
TOTAL 6163X Legal (61630-61636)			
6164X Medical Services (61640-61646)			
TOTAL 6164X Medical Services (61640-61646)			
	=  =		
61650 State Personnel Board			
TOTAL 61650 State Personnel Board			
6165X Personnel Services Contracts (61651-61653)			
TOTAL 6165X Personnel Services Contracts (61651-61653)			
61658 Personnel Services Contracts - SPAHRS			
TOTAL 61658 Personnel Services Contracts - SPAHRS			
6166X Court Costs & Reporters (61661-61666)			
TOTAL 6166X Court Costs & Reporters (61661-61666)			
61670 Laboratory & Testing Fees			
TOTAL 61670 Laboratory & Testing Fees			
6168X Contract Worker (61682-61688)			
TOTAL 6168X Contract Worker (61682-61688)			
61690 Other Fees & Services			
	16 500	500	General
Equipment RFP			
Comp. Rate: \$70.51 per hour			
TOTAL 61690 Other Fees & Services 4	16 500	500	
GRAND TOTAL (61600-61699) 4	16 500	500	4

### VEHICLE PURCHASE DETAILS

# UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING

Name of Agency

Year Model

Person(s) Assigned To

Vehicle Purpose/Use

FY2013 Req. Cost

0

0

TOTAL VEHICLE REQUEST 0

### VEHICLE INVENTORY AS OF JUNE 30, 2011

#### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING

Name of Agency

Veh.	Vehicle	Model							Tag	Mileage	Average	Replaceme	ent Proposed
Туре	Descript.	Year	Model	Person(s) Assigned To	Purpose/Use	Number	On 6-30-11	Miles per Year	FY 2012	FY 2013			

Vehicle Type = <u>P</u>assenger/<u>W</u>ork

# PRIORITY OF DECISION UNITS FISCAL YEAR 2013

### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

Agency Name

Program	Decision Unit	Object	Amount
iority # 1			
Program # 1 : ACAD	EMIC SUPPORT		
	Restoration		
		Salaries	17,420
		Commodities	1,000
		Equipment	110,916
		Subsidies	16,161
		Total	145,497
		General Funds	145,497

### CAPITAL LEASES

#### UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH

		Original	Number			Amount of Each			Amount of Each Total of Payments to be Made								
Vendor/	Original Date of		of Months Remaining	Last Pavment	Interest	Monthly/Yearly Payment		Estimated FY 2012		12	Requested FY 2013						
Item Leased	Lease	of Lease	on 6-30-11	Date	Interest Rate	Principal	Interest	Total	Actual FY 2011	Principal	Interest	Total	Principal	Interest	Total		
/	//	0	0	//	.000												

# Summary of 3% General Fund Program Reduction to FY2012 Appropriated Funding by Major Object

# UM - MISSISSIPPI CENTER FOR SUPERCOMPUTING

Major Object	FY2012 GENERAL FUND REDUCTION	AFFECT ON FY2012 STATE SUPPORT SPECIAL FUNDS	AFFECT ON FY2012 FEDERAL FUNDS	AFFECT ON FY2012 OTHER SPECIAL FUNDS	-	AL 3% CTIONS
PERSONAL SERVICES						
TRAVEL	( 2,000)				(	2,000)
CONTRACTUAL SERVICES						
COMMODITIES	( 2,000)				(	2,000)
OTHER THAN EQUIPMENT						
EQUIPMENT	( 14,451)				(	14,451)
VEHICLES						
WIRELESS COMM. DEVICES						
SUBSIDIES, LOANS, ETC	( 2,287)				(	2,287)
TOTALS	( 20,738)				(	20,738)