

Test Report

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Project name:	Resource allocation by greedy algorithm in CloudSim
Project ID:	001
Start Date	18/10/2017
End Date	20/10/2017
Report Date	20/10/2017

Test Case ID	Description	Pass/Fail/Not Executed	Test Date
01	<i>Sort cloudletList in priority ascending order</i>	Pass	18/10/17
02	<i>Sort vmList in MIPS descending order</i>	Pass	18/10/17
03	Time cost of each cloudlet	Pass	18/10/17
04	Allocate cloudlet with highest priority to fastest Vm	Pass	18/10/17
05	Run simulation with random Vms	Pass	19/10/17
06	Run simulation with random cloudlet	Pass	19/10/17
07	Run simulation with host with 1000MIPS	Fail	19/10/17
08	Run simulation with host with 1000MIPS	Pass	19/10/17
09	Run simulation with specific Vms and Cloudlets	Pass	20/10/17
10	Get J factor with different parameter of Vms and Cloudlets	Pass	20/10/17
11	Simulate with 25,50,100cloudlets	Not executed	

Cloudlet Input

Cloudlet ID	Length	PesNumber	File Size	Output Size
0	900	1	300	300
1	1200	1	1000	500
2	1500	1	1000	500
3	1800	1	800	300
4	2100	1	1500	500
5	2400	1	1500	500
6	2700	1	2000	400
7	3000	1	2500	500

Vm Input

Vm ID	MIPS	PesNumber	Ram	Bw
0	1000	4	2048	2000
1	500	2	2048	3000
2	300	2	2048	1200
3	300	1	2048	2000

Output

Greedy Algorithm

Cloudlet ID	STATUS	Data center ID	VM ID	Time	Start Time	Finish Time	Priority	expex Time	J Function
0	SUCCESS	2	1	1.8	0.1	1.9	9	1.5	0.1823215567939546
4	SUCCESS	2	0	2.1	0.1	2.2	1	3.5	-0.5108256237659907
5	SUCCESS	2	0	2.4	0.1	2.5	4	4.0	-0.5108256237659907
6	SUCCESS	2	0	2.7	0.1	2.8	10	4.5	-0.5108256237659907
7	SUCCESS	2	0	3	0.1	3.1	10	5.0	-0.5108256237659909
3	SUCCESS	2	1	3.6	0.1	3.7	1	3.0	0.1823215567939546
1	SUCCESS	2	2	4	0.1	4.1	4	2.0	0.6931471805599452
2	SUCCESS	2	3	5	0.1	5.1	4	2.5	0.6931471805599453

***** finished *****

Original Algorithm

Cloudlet ID	STATUS	Data center ID	VM ID	Time	Start Time	Finish Time	Priority	expex Time	J Function
0	SUCCESS	2	0	0.9	0.1	1	9	1.5	-0.5108256237659907
4	SUCCESS	2	0	2.1	0.1	2.2	1	3.5	-0.5108256237659907
1	SUCCESS	2	1	2.4	0.1	2.5	4	2.0	0.1823215567939546
5	SUCCESS	2	1	4.8	0.1	4.9	4	4.0	0.1823215567939546
2	SUCCESS	2	2	5	0.1	5.1	4	2.5	0.6931471805599453
3	SUCCESS	2	3	6	0.1	6.1	1	3.0	0.6931471805599453
6	SUCCESS	2	2	9	0.1	9.1	10	4.5	0.6931471805599453
7	SUCCESS	2	3	10	6.1	16.1	10	5.0	0.6931471805599455

Summery

Total Test	10
Cast	
Executed	9
Pass	8
Fail	1
Not executed	1