Service	Mode	le Protocol		Source			Target			Size	Message	Payload	Observation
			GMP	LMP	Slave	GMP	LMP	Slave	USED	(# flits)	Code		
Message Request	Unicast	Data Exchange							Data	13	0x0010		
Message Delivery	Unicast	Data Exchange							Data	13 + payload	0x0020	App Data	Pipe
App_Allocation_Request	Unicast	New Application							Data	13 + payload	0x0240	Mapping graph	
New_App	Unicast	New Application							Data	13 + payload	0x0150	Task graph	* repository
Task_Allocation	Unicast	New Application							Data	13 + payload	0x0040	Task object code	* repository
Task Allocated	Unicast	New Application							PDN	13	0x0050		
Task_Release	Multicast	New Application							Data	13 + payload	0x0250	Tasks location	Small Payload
Initialize_Cluster	Multicast	Initialization							PDN	13	0x0160		
Initialize_Slave	Multicast	Initialization							PDN	13	0x0170		
App_Terminated	Unicast	Task Terminated							Data	13 + payload	0x0140	Terminated tasks list	Small Payload
Task_Terminated	Unicast	Task Terminated							PDN	13	0x0070		
Task_Term_Other_Cluster	Unicast	Task Terminated							PDN	13	0x0180		
Task_Migration	Unicast	Task Migration							Data	13	0x0210		
Task_Migrated	Unicast	Task Migration							Data	13	0x0235		
Update_Task_Location	Unicast	Task Migration							Data	13	0x0230		
Migration_Code	Unicast	Task Migration							Data	13 + payload	0x0220	Object code	* TCB
Migration_TCB	Unicast	Task Migration							Data	13 + payload	0x0221	TCB Data	* TCB
Migration_Task_Location	Unicast	Task Migration							Data	13 + payload	0x0222	Tasks location	* TCB
Migration_Msg_Request	Unicast	Task Migration							Data	13 + payload	0x0223	Request msg array	* TCB
Migration_Stack	Unicast	Task Migration							Data	13 + payload	0x0224	Task Stack	* TCB
Migration_Data_BSS	Unicast	Task Migration							Data	13 + payload	0x0225	Task Data and BSS	* TCB
Loan_processor_Request	Multicast	Loan Processor							PDN	13	0x0190		
Loan_processor_Delivery	Unicast	Loan Processor							Data	13	0x0200		
Loan_processor_Release	Multicast	Loan Processor							PDN	13	0x0090		
Slack_Time_Report	Unicast	Real Time							Data	13	0x0260		
Real_Time_Change	Unicast	Real Time							Data	13	0x0280		
Deadline_Miss_Report	Unicast	Real Time									0x0270		
Debug_Message											0x0100		
New_Task	Unicast	New Task									0x0130		
Task Request	Unicast	New Task									0x0060		

Flit 0	Flit1	Flit 2	Flit 3	Flit 4	Flit 5	Flit 6	Flit 7	Flit 8	Flit 9	Flit 10	Flit 11	Flit 12
Header	Size	Service	producer_task	Consumer_task	Source_PE	Timestamp	unused	Msg_length	Pkt_size	Code_size	Bss_size	Init _add
			task_ID	Cluster_ID				Resolution	Data_size	Max_free_procs	Cpu_slack_time	PC
			app_ID	Master_ID				Priority		Execution_time	Request_size	utilization
				Hops				Latency_deadline		Secure		
				period				Pkt_latency				
								Stack_size				
								Release_proc				
								App_task_number				
								App_descriptor_size				
								Allocated_proc				
								Requesting_proc				

Flit 0	Flit 1	Flit 2	Flit 3	Flit 4	Flit 5	Flit 6	Flit 7	Flit 8	Flit 9	Flit 10	Flit 11	Flit 12	Payload
Mesage_reque	st												
Producer_PE		0x0010	prod_task	cons_task	Consumer_PE								
Message_Deliv	ery												
Request_PE	13+payload	0x0020	prod_task	cons_task	Producer_PE								App Data
App_Allocation	<del> </del>												
GMP	13+payload	0x0240		Master_ID	LMP_PE			app_task_number					Mapping graph
New_app													
LMP	13+payload	0x0150	App_ID		GMP_PE			App_descriptor_size					Task graph
Task_allocation		1										1	
Slave_PE	13+payload	0x0040	Task_ID	Master_ID	GMP_PE					Code_size			Task Object code
Task_allocated												1	
LMP	13	0x0050	Task_ID	Master_ID	Slave_PE								
Initialize_Cluste	1					,				,		, ,	
LMP	13	0x0160		Cluster_ID	GMP_PE								

Flit 0	Flit 1	Flit 2	Flit 3	Flit 4	Flit 5	Flit 6	Flit 7	Flit 8	Flit 9	Flit 10	Flit 11	Flit 12	Payload
Initilize_Slave	•			11					N.	l.	•	и	•
Slave_PE	13	0x0170			LMP_PE								
Task_release				1					_				1
Slave_PE	13+payload	0x0250	task_ID		LMP_PE			App_task_number	Data_size	Secure	Bss_size		Tasks location
													1845 11 1 1 1
App_terminate		0.0140	ID	ı	LAAD DE	1		Ann task number	T	T	Terminated	task list {<	LMP_address, index>}
GMP	13+payload	0x0140	app_ID		LMP_PE			App_task_number					Terminated tasks list
Task_terminate	nd .												
LMP	13	0x0070	task_ID	Master_ID	Slave_PE							1	
LIVII	13	0.0070	task_ID	Waster_ID	Siave_i L								
Task_terminate	ed Other Clu	ster											
LMP	13	0x0180	task_ID	Master_ID	Slave_PE								
	•	I			_				·L	I .		1	I.
Slack_time_rep	ort												
LMP	13	0x0260			Slave_PE						slack_time		
Real_time_cha													
LMP	13	0x0280	task_ID		Slave_PE							utiliz	
Update_Task_I			=	T				L	1	ı	1	1	Т
Slave_PE	13	0x0230	task_ID		Slave_PE			Allocated_proc					
<b>+</b> 1 · · · ·													
Task_migration		00210	taal. ID	1	LAAD DE	1 1		Allocated area	1	<u> </u>	-	I	1
Slave_PE	13	0x0210	task_ID		LMP_PE			Allocated_proc					
Task_migrated													
LMP	13	0x0235	task_ID		Slave_PE			Release_proc					
1	1	3.0233		1	0.370_1.2	1			1	I	1	1	
Migration_cod	9												
Slave_PE	13+payload	0x0220	task_ID	Master_ID	Slave_PE					Code_size			Object code
	1	I			<u> </u>	1			ı		1	I	<u> </u>
Migration_TCB													
Slave_PE	13+payload	0x0221	task_ID		Slave_PE								TCB data
			_	1	_	1 1			1	1	1	1	1

Flit 0	Flit 1	Flit 2	Flit 3	Flit 4	Flit 5	Flit 6	Flit 7	Flit 8	Flit 9	Flit 10	Flit 11	Flit 12	Payload
Migration_Task	_Location			•	1	•		1	•			•	
Slave_PE	13+payload	0x0222	task_ID		Slave_PE								Task location array
Migration_Msg													
Slave_PE	13+payload	0x0223	task_ID		Slave_PE						Request_size		Request msg array
			•										
Migration_Stac		T		_	ı			T	1		1	•	
Slave_PE	13+payload	0x0224	task_ID		Slave_PE			Stack_size					Task stack
Migration_Data		0.0005		1	T 61 - DE	1		T	I 5		l nee :	1	D. IBSS C. I
Slave_PE	13+payload	0x0225	task_ID		Slave_PE				Data_size		BSS_size		Data and BSS of task
1	. Danwart												
Loan_processo  GMP/LMP		00100	task_ID		CMD/LMD	1		Allocated_proc			1	1	
GIVIP/LIVIP	13	0x0190	task_ID		GMP/LMP			Allocateu_proc					
	5 !:												
Loan_processo		00200	task ID	Hama	CMD/LMD	1		Allocated_proc			1	1	
GMP/LMP	13	0x0200	task_ID	Hops	GMP/LMP			Allocated_proc					
Loan_processo	r Release												
GMP/LMP	13	0x0090	task_ID		GMP/LMP			Release_proc					
,					1,	1					L		<u> </u>
Debug_Messag	е												
		0x0100											
New_Task	1	ı		1	T	1		1	1		1	1	1
		0x0130											
Task Danier													
Task_Request LMP		0,0000				1					1	1	
LIVIP		0x0060							<u> </u>			<u> </u>	
Deadline_miss_	report												
LMP	13	0x0270			Slave_PE								
LIVIE	13	0.0270		1	Jiave_F L	1						1	