

# TEST DOCUMENTATION

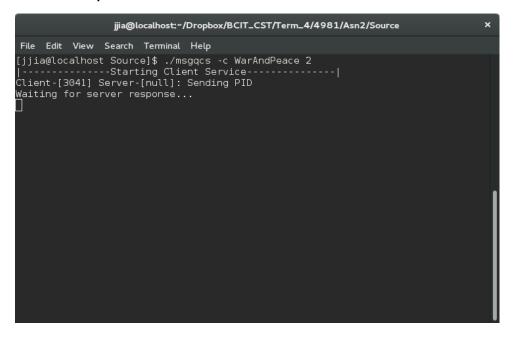
COMP 4981 File Message Server

Test #	Description	Test Steps	Expected Result	Pass / Fail
1	Program usage on command line arguments	<ol> <li>Run program</li> <li>Enter ./msgqcs</li> </ol>	Displays the command line arguments usage	Pass

# Test Case 1 | Screenshot

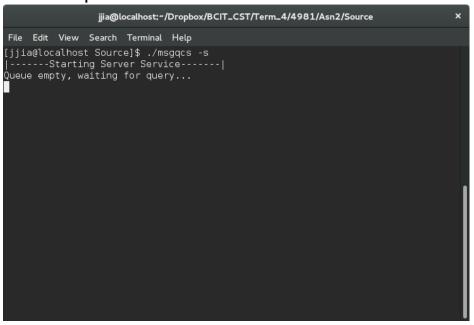
2	Run Client service	1.	Run Program	Enters client service	Pass
		2.	Enter ./msgqcs -c		
			WarAndPeace 2		

# Test Case 2 | Screenshot



3	Run server service	1. Run Program	Enters server service	Pass
		2. Enter ./msgqccs -s		

# Test Case 3 | Screenshot



4	Request a file from	1.	Start two terminals	Test is opened on	Pass
	the server	2.	Enter ./msgqcs -c	the server and	
			WarAndPeace 1 on first	transferred to the	
			terminal	message queue,	
		3.	Enter ./msgqcs -s on	which is read and	
			second terminal	displayed by the	
				client	
			Note : test has to be a		
			valid file name on the		
			server		

## Test Case 5 | Screenshot (Server)

#### Test Case 5 | Screenshot (Client)

#### jjia@localhost;~/Dropbox/BCIT\_CST/Term\_4/4981/Asn2/Source

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6	Request an file that doesn't exists on the server	Start two terminals Enter ./msgqcs -c noname 1 on first terminal	Displays the file not found error on both sides. The client ends and the server	Pass
		Enter ./msgqcs -s on second terminal  Note: noname has to be an invalid file name on the server	keeps on waiting for new clients	

#### Test Case 6 | Screenshot (Server)

```
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[jjia@localhost Source]$ ./msgqcs -s

[------Starting Server Service------|

Queue empty, waiting for query...

Client-[3323] Server-[3324]: Recieved query!

Client-[3323] Server-[3324]: Responding

Queue empty, waiting for query...

Client[3323]: waiting for file name...

Client-[3323] Server-[3324]: Recieved File Name-[noname], Priority-[2]

fopen(): file not found
```

## Test Case 6 | Screenshot (Client)

7	Connect multiple	1.	Start four terminals	All of the clients will	Pass
	clients to 1 server	2.	Enter ./msgqcs -c	successfully receive	
	with priority		WarAndPeace 1 on first	the file back in the	
			terminal	order of third,	
		3.	Enter ./msgqcs -c	second, and first	
			WarAndPeace 50 on	terminal (high	
			second terminal	priority to low)	
		4.	Enter ./msgqcs -c		
			WarAndPeace 100 on		
			third terminal		
		5.	Enter ./msgqcs -s on		
			fourth terminal		
		6.	Note : WarAndPeace		
			has to be a valid file		
			name on the server		

## Test Case 7 | Screenshot (Client 1 – Priority 1)



#### Test Case 7 | Screenshot (Client 2 - Priority 50)

#### jjia@localhost;~/Dropbox/BCIT\_CST/Term\_4/4981/Asn2/Source

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Client-[3398]: End of file, exiting... [jjia@localhost Source]\$ ■

#### Test Case 7 | Screenshot (Client 3 – Priority 100)

#### jjia@localhost:~/Dropbox/BCIT\_CST/Term\_4/4981/Asn2/Source

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Client-[3438]: End of file, exiting... [ijia@localhost Source]\$ ∏

Test Case 7 | Screenshot (Server) -Note: Client 3 finishes first because it has highest priority

```
jjia@localhost;~/Dropbox/BCIT_CST/Term_4/4981/Asn2/Source
                                                                                ×
File Edit View Search Terminal Help
|-----Starting Server Service-----|
Queue empty, waiting for query...
Client-[3395] Server-[3439]: Recieved query!
Client-[3395] Server-[3439]: Responding
Queue empty, waiting for query...
Client-[3398] Server-[3439]: Recieved query!
Client-[3398] Server-[3439]: Responding
Client[3395]: waiting for file name...
Client-[3395] Server-[3439]: Recieved File Name-[WarAndPeace], Priority-[1]
Queue empty, waiting for query...
Client-[3438] Server-[3439]: Recieved query!
Client-[3438] Server-[3439]: Responding
Client[3395]: Start transferring...
Client[3398]: waiting for file name...
Client-[3398] Server-[3439]: Recieved File Name-[WarAndPeace], Priority-[50]
Queue empty, waiting for query...
Client[3398]: Start transferring...
Client[3438]: waiting for file name...
Client-[3438] Server-[3439]: Recieved File Name-[WarAndPeace], Priority-[100]
Client[3438]: Start transferring...
Finished transferring for client: [3438]. exiting...
Finished transferring for client: [3398]. exiting...
Finished transferring for client: [3395]. exiting...
```