

21 point scale for Advanced Scientific Computing

Exercise 2

Mark	%	Feedback Criteria	Program criteria to be satisfied
20	100	<i>Excellent with outstanding aspects</i>	<ul style="list-style-type: none"> All parts of the exercise have been completed, performing all tasks asked for, with significant useful extra code which goes beyond the brief. The code functions to a high standard, is clear and consistent, and robust with excellent programming style throughout and no errors. The code is parallelised with MPI and contains multiple optimisation strategies, e.g. a cell list approach and different data distributions/load balancing strategies.
19	95		
18	90		
17	85	<i>Mostly excellent</i>	<ul style="list-style-type: none"> All parts of the exercise have been completed, performing all tasks asked for, with useful extra code which goes beyond the brief. The code functions to a high standard, is clear and consistent, and robust with mostly excellent programming style and no errors. The code is parallelised with MPI and contains multiple optimisation strategies, e.g. a cell list approach and different data distributions/load balancing strategies.
16	80		
15	75	<i>Mostly very good</i>	<ul style="list-style-type: none"> All parts of the exercise have been completed, performing all tasks asked for, and may contain some elements which go beyond the brief. The code functions to a mostly very good standard, is clear and consistent, and robust with very good programming style throughout with no major weaknesses and no errors. The code is parallelised with MPI and contains more than one additional optimisation beyond a brute force approach, e.g. a cell list approach and different data distributions/load balancing strategies.
14	70		
13	65	<i>Mostly good</i>	<ul style="list-style-type: none"> All parts of the exercise have been completed, performing all tasks asked for. The code functions to a mostly good standard, is clear and consistent, and relatively robust with good programming style with no major weaknesses. May contain minor errors. The code is parallelised with MPI and contains at least one optimisation beyond a brute force approach, e.g. a cell list approach, or different data distributions/load balancing strategies.
12	60		
11	55	<i>Mostly satisfactory</i>	<ul style="list-style-type: none"> Most parts of the exercise have been completed, performing most tasks asked for.
10	50		

			<ul style="list-style-type: none"> The code functions to a mostly satisfactory standard, with mostly satisfactory clarity and programming style but there may be one or more errors which prevents part of it running correctly. Only a brute force approach has been implemented, with MPI parallelisation but no further optimisations.
9	45	<i>Some satisfactory, some poor</i>	<ul style="list-style-type: none"> Most parts of the exercise have been attempted, performing some tasks asked for. The code works but errors prevent most of it working correctly, and/or the code may be less clear and lacking in consistency. Only a brute force approach has been implemented, with MPI parallelisation but no further optimisations.
8	40		
7	35	<i>Mostly poor</i>	<ul style="list-style-type: none"> Some parts of the exercise have been attempted but not the majority. The code may contain serious errors and/or is unclear and lacks consistency. Only a brute force approach has been implemented, with no attempt to improve on the efficiency or implement MPI.
6	30		
5	25	<i>Poor to unacceptable</i>	<ul style="list-style-type: none"> Most of the exercise has not been completed. The code contain serious errors. Only a brute force approach has been implemented, with no attempt to improve on the efficiency or implement MPI.
4	20	<i>Mostly unacceptable</i>	<ul style="list-style-type: none"> Almost all of the exercise has not been completed. The code contains serious errors. Only a brute force approach has been implemented, with no attempt to improve on the efficiency or implement MPI.
3	15		
2	10	<i>Unacceptable</i>	<ul style="list-style-type: none"> Almost all of the exercise has not been completed. The code is not functional. Only a brute force approach has been implemented, with no attempt to improve on the efficiency or implement MPI.
1	5		
0	0		<ul style="list-style-type: none"> Work not handed in or no significant effort made to provide functional code.