COMP3301/COMP7308 Assignment 2 Marksheet 25 Marks (25%)				
\$Revision: 486 \$				
Surname First Name Student ID Session/Date Market				Marker Initials

Criteria	Excellent (eX)	Good (gX)	Satisfactory (sX)	Weak (wX)	Poor (pX)	
Functionality	<ul> <li>(e1) Implements an autoconf (9) device driver that can match and attach to the A2 device.</li> <li>(e2) Implements a character device driver at major specified.</li> <li>(e3) Correctly implements open(), close(), and ioctl() interfaces as specified.</li> <li>(e4) Correctly sets up and utilises the device descriptor rings to send and receive commands and responses, including under concurrent load.</li> </ul>	<ul> <li>(g1) Amplements an autoconf (9) device driver that can match and attach to the A2 device.</li> <li>(g2) Implements a character device driver at major specified.</li> <li>(g3) Implements open(), close(), and ioctl() interfaces as specified, with minor deviations in error cases or mistakes that do not impede basic operation.</li> <li>(g4) Sets up and utilises the device descriptor rings to at least complete command and response cycles submitted serially, but may fail under concurrency.</li> </ul>	• (s1) Implements an autoconf (9) device driver that can match Sand attach Offe \$2 device. • (s2) Implements a character device driver at mabbilecified \$UUU (s3) Implements open(), close() interfaces as specified. Implements enough of ioct1() to exchange at least one command with the device. • (s4) Sets up and utilises the device descriptor rings to successfully submit and complete at least one command.	<ul> <li>(w1) Implements an autoconf (9) device</li> <li>chirch that can match and attach to the A2 device.</li> <li>(w2) Implements a character device driver at major specified.</li> <li>(w3) Implements at least open() and close(), and these work at least once. Some attempt to implement ioctl().</li> <li>(w4) Maps the device BAR and attempts to allocate and configure descriptor rings, but may not be successful.</li> </ul>	<ul> <li>(p1) Attempts to implement an autoconf (9) device driver that can match and attach to the A2 device.</li> <li>(p2) May or may not implement a character device driver at specified major.</li> <li>(p3) May or may not implement open(), close() and ioctl() for the character device, if attempted.</li> <li>(p4) Attempts to at least map and use the device BAR.</li> </ul>	<ul> <li>(z1) No code submitted, or code does not compile and boot.</li> <li>(z2) No attempt to implement an autoconf(9) device driver (no match/attach).</li> <li>(z3) No evidence of an attempt to map or use device BAR or descriptor rings.</li> </ul>
/12	12	11 – 9	8 – 6	5 – 3	2 – 1	0

Criteria	Excellent (eX)	Good (gX)	Satisfactory (sX)	Weak (wX)	Poor (pX)	
Robustness	<ul> <li>(e1) Hardware errors are detected in an efficient and timely manner, according to spec, and returned to userland where necessary.</li> <li>(e2) Errors in arguments or data from userland are handled appropriately and consistently, according to spec.</li> <li>(e3) Driver code checks for errors on all memory allocations and calls to other parts of the kernel.</li> <li>(e4) Driver thoroughly qualifies which devices it attaches to and will not attach erroneously to a non-A2 device.</li> <li>(e5) Lengths of memory allocations are calculated safely and checked.</li> <li>(e6) Functions are consistently designed to release resources correctly and return on error.</li> <li>(e7) Extensive use of defensive programming is evident in checks for expected structure and values and use of assertions.</li> <li>(e8) Locks and related concurrency primitives are used appropriately and consistently.</li> </ul>	<ul> <li>(g1) Hardware errors are detected appropriately, perhaps with a few small deviations from spec.</li> <li>(g2) Errors in arguments or data from userland are handled appropriately, perhaps with a few small deviations from spec.</li> <li>(g3) Driver code checks for errors on memory allocations and calls to other code, perhaps with a few isolated exceptions.</li> <li>(g4) Driver qualifies which devices it attliches to and will not attach erroneously to a non-A2 device.</li> <li>(g5) Lengths of memory allocations are calculated safely and checked.</li> <li>(g6) Functions are consistently designed to attempt to release resources and return on error.</li> <li>(g7) Some use of defensive programming is evident.</li> <li>(g8) Locks and related concurrency primitives are used appropriately.</li> </ul>	<ul> <li>(s1) An attempt is made to detect hardware errors in a sensible way, but it may be flawed.</li> <li>(s2) Consistent attempts are made to handle errors in arguments or data from userland, and mostly to spec.</li> <li>(s3) Driver attempts to devices it attaches to and is mostly successful.</li> <li>(s4) Driver code mostly successful.</li> <li>(s4) Driver code mostly shecks a for a errors on internory allocations and external calls.</li> <li>(s5) Lengths of memory allocations and external calls.</li> <li>(s6) Resources may be leaked in error cases, but success cases are mostly handled appropriately/</li> <li>(s7) Attempted to use at least one defensive programming technique.</li> <li>(s8) Attempted to use locks in a sensible way.</li> </ul>		<ul> <li>(p1) Hardware errors handled inconsistently or inappropriately.</li> <li>(p2) Errors in arguments or data from userland are not detected or handled inappropriately.</li> <li>(p3) Driver attempts to qualify which devices it attaches to.</li> <li>(p4) Missed checks on errors from memory allocation or external calls.</li> <li>(p5) Errors in length calculations which could result in overflow or unsafe operation.</li> <li>(p6) Some attempt at functions being design to release resources and return on errors.</li> <li>(p7) Little or no evidence of defensive programming.</li> <li>(p8) Little or no evidence of concurrency concerns or attempt to deal with them.</li> </ul>	• (z1) No code submitted, or code does not compile and boot.
/8	8	7 – 5	4 – 2	-	1	0

Criteria	Excellent (eX)	Good (gX)	Satisfactory (sX)	Weak (wX)	Poor (pX)	
Style	(e1) No style errors were detected in submit- ted code.	• (g1) A small number of isolated (one-off) style errors were detected.	• (s1) Widespread style errors, including any repeated, consistent violations of the same rule.		• (p1) Code was submitted, and some lines of code contained no style violations.	ted, or every line submit-
/5	5	4 – 3	2	-	1	0

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Total	/ 25
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