TABLE II AMSs Generated Randomly

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| --- | --- | --- | --- | --- | --- |
| A1 | *R*:1,2,3,4,**5**  *C*:1,1,1,2,2 | *W*1:1,2,3  *W*2:3,2,1  *W*3:1,2,3,4,3,2,5  *W*4:2,5,3,4,2,1,5 | A11 | *R*:1,2,3,4,**5**  *C*:1,1,1,1,1 | *W*1:1,3  *W*2:2,3,5,4,1  *W*3:1,3,5,4  *W*4:5,2,3,5  *W*5:4,3,2,5,1,4 |
| A2 | *R*:**1**,2,3  *C*:1,1,2 | *W*1:1,2,1  *W*2:3,2,1,2  *W*3:2,1,3,1,2 | A12 | *R*:1,2,3,4,**5**  *C*:2,1,2,1,1 | *W*1:2,4,2,3,2,5  *W*2:5,3,4,  *W*3:4,3,5,1,4  *W*4:3,2,5,3 |
| A3 | *R*:1,2,3,4,**5**  *C*:1,2,1,2,1 | *W*1:1,2,3  *W*2:2,3,4,5  *W*3:5,4,3,5 | A13 | *R*:1,**2**,3  *C*:2,2,1 | *W*1:1,3,2  *W*2:2,3,1,2 |
| A4 | *R*:1,**2**,3,4,5  *C*:1,1,1,2,1 | *W*1:3,4  *W*2:1,2,3,5  *W*3:5,4,5,2  *W*4:2,4,1,2,4 | A14 | *R*:1,**2**,3,4  *C*:1,2,2,2 | *W*1:2,4,2  *W*2:4,2,1  *W*3:2,3,2  *W*4:3,2,1,2 |
| A5 | *R*:**1**,2,3,4,5,6  *C*:1,1,1,1,1,1 | *W*1:4,3,2,1  *W*2:1,2,3,5  *W*3:5,2,6  *W*4:6,2,5 | A15 | *R*:1,**2**,3,4,5  *C*:1,1,2,2,1 | *W*1:3,2,5  *W*2:1,4,2,3,5,3  *W*3:2,4,3,4,2,5 |
| A6 | *R*:1,2,**3**,4  *C*:1,1,2,1 | *W*1:3,2,3,1,4,3  *W*2:3,1,2  *W*3:1,2,1  *W*4:2,3,1,2 | A16 | *R*:1,**2**,3,4,5,6  *C*:1,1,1,2,1,2 | *W*1:4,5,6,2,3,5  *W*2: 2,3,1,3  *W*3:4,6,2 |
| A7 | *R*:1,2,**3**,4,5,6  *C*:1,2,1,2,1,2 | *W*1:3,5,4  *W*2:1,4,3  *W*3:6,2,5,4,5,6 | A17 | *R*:1,**2**,3,4,5  *C*:1,1,2,1,1 | *W*1:2,4,3,4,2, 5  *W*2: 3,2,5  *W*3:1,4,2,3,5,3 |
| A8 | *R*:1,2,3,**4**,5  *C*:1,2,2,2,1 | *W*1:1,2,1,4  *W*2:4,2,5,4,2  *W*3:5,4,3,1  *W*4:3,2 | A18 | *R*:1,2,**3**,4  *C*:1,1,2,2 | *W*1:2,1,3  *W*2:3,1  *W*3:3,1,3,4,3  *W*4:1,2,3,2,3 |
| A9 | *R*:1,2,3,**4**,5  *C*:1,1,1,1,2 | *W*1:4,2,4  *W*2:3,2,4  *W*3:3,5,2,3  *W*4:1,5,2,4,3,4 | A19 | *R*:1,2,**3**,4  *C*:1,1,2,1 | *W*1:2,1,3,1  *W*2:3,1  *W*3:3,1,3,4,3  *W*4:2,3,1,2,3  *W*5:1,2,3,2,3 |
| A10 | *R*:1,2,3,**4**,5  *C*:1,1,1,2,1 | *W*1:2,4,1  *W*2:4,3,2,3,4,3  *W*3:3,1,3  *W*4:3,2,4,5 | A20 | *R*:1,2,3,**4**,5  *C*:1,1,1,1,2 | *W*1:2,5,4,3,2,4  *W*2:1,4,3  *W*3:4,2,4,3 |

For A20, *R*:1,2,3,**4**,5 means that there are five resources *r*1- *r*5 and *r*4 is an unreliable resource; *C*:1,1,1,1,2 means that the capacities of buffer spaces of *r*1- *r*5 are 1,1,1,1,2 respectively; *W*2:1,4,3 means that the resource sequence required by *W*2 is *r*1, *r*4, *r*3.