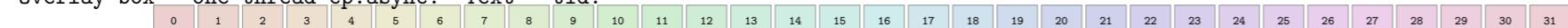


G2S A (m,k) pipe=2 k\_tile=0 step 0/7 (cm=0, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

Overlay box = one thread cp.async. Text = tid.



W0    W1    W2    W3

gA (m,k) CTA tile

| t0   | t1   | t2   | t3   | t4   | t5   | t6   | t7   |
|------|------|------|------|------|------|------|------|
| t8   | t9   | t10  | t11  | t12  | t13  | t14  | t15  |
| t16  | t17  | t18  | t19  | t20  | t21  | t22  | t23  |
| t24  | t25  | t26  | t27  | t28  | t29  | t30  | t31  |
| t32  | t33  | t34  | t35  | t36  | t37  | t38  | t39  |
| t40  | t41  | t42  | t43  | t44  | t45  | t46  | t47  |
| t48  | t49  | t50  | t51  | t52  | t53  | t54  | t55  |
| t56  | t57  | t58  | t59  | t60  | t61  | t62  | t63  |
| t64  | t65  | t66  | t67  | t68  | t69  | t70  | t71  |
| t72  | t73  | t74  | t75  | t76  | t77  | t78  | t79  |
| t80  | t81  | t82  | t83  | t84  | t85  | t86  | t87  |
| t88  | t89  | t90  | t91  | t92  | t93  | t94  | t95  |
| t96  | t97  | t98  | t99  | t100 | t101 | t102 | t103 |
| t104 | t105 | t106 | t107 | t108 | t109 | t110 | t111 |
| t112 | t113 | t114 | t115 | t116 | t117 | t118 | t119 |
| t120 | t121 | t122 | t123 | t124 | t125 | t126 | t127 |

m=16

m=32

m=48

m=64

m=80

m=96

m=112

sA (m,k) bank-colored

| t0   | t1   | t2   | t3   | t4   | t5   | t6   | t7   |
|------|------|------|------|------|------|------|------|
| t16  | t9   | t10  | t11  | t12  | t13  | t14  | t15  |
| t24  | t17  | t18  | t19  | t20  | t21  | t22  | t23  |
| t32  | t33  | t34  | t35  | t36  | t37  | t38  | t39  |
| t40  | t41  | t42  | t43  | t44  | t45  | t46  | t47  |
| t48  | t49  | t50  | t51  | t52  | t53  | t54  | t55  |
| t56  | t57  | t58  | t59  | t60  | t61  | t62  | t63  |
| t64  | t65  | t66  | t67  | t68  | t69  | t70  | t71  |
| t72  | t73  | t74  | t75  | t76  | t77  | t78  | t79  |
| t80  | t81  | t82  | t83  | t84  | t85  | t86  | t87  |
| t88  | t89  | t90  | t91  | t92  | t93  | t94  | t95  |
| t96  | t97  | t98  | t99  | t100 | t101 | t102 | t103 |
| t104 | t105 | t106 | t107 | t108 | t109 | t110 | t111 |
| t112 | t113 | t114 | t115 | t116 | t117 | t118 | t119 |
| t120 | t121 | t122 | t123 | t124 | t125 | t126 | t127 |

m=16

m=32

m=48

m=64

m=80

m=96

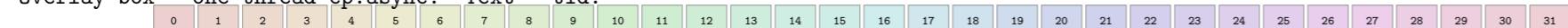
m=112

CUTE:



G2S B (n,k) pipe=2 k\_tile=0 step 0/7 (cm=0, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

Overlay box = one thread cp.async. Text = tid.



W0 W1 W2 W3

gB (n,k) CTA tile

| t0   | t1   | t2   | t3   | t4   | t5   | t6   | t7   |
|------|------|------|------|------|------|------|------|
| t8   | t9   | t10  | t11  | t12  | t13  | t14  | t15  |
| t16  | t17  | t18  | t19  | t20  | t21  | t22  | t23  |
| t24  | t25  | t26  | t27  | t28  | t29  | t30  | t31  |
| t32  | t33  | t34  | t35  | t36  | t37  | t38  | t39  |
| t40  | t41  | t42  | t43  | t44  | t45  | t46  | t47  |
| t48  | t49  | t50  | t51  | t52  | t53  | t54  | t55  |
| t56  | t57  | t58  | t59  | t60  | t61  | t62  | t63  |
| t64  | t65  | t66  | t67  | t68  | t69  | t70  | t71  |
| t72  | t73  | t74  | t75  | t76  | t77  | t78  | t79  |
| t80  | t81  | t82  | t83  | t84  | t85  | t86  | t87  |
| t88  | t89  | t90  | t91  | t92  | t93  | t94  | t95  |
| t96  | t97  | t98  | t99  | t100 | t101 | t102 | t103 |
| t104 | t105 | t106 | t107 | t108 | t109 | t110 | t111 |
| t112 | t113 | t114 | t115 | t116 | t117 | t118 | t119 |
| t120 | t121 | t122 | t123 | t124 | t125 | t126 | t127 |

n=16

n=32

n=48

n=64

n=80

n=96

n=112

sB (n,k) bank-colored

| t0   | t1   | t2   | t3   | t4   | t5   | t6   | t7   |
|------|------|------|------|------|------|------|------|
| t16  | t17  | t18  | t19  | t20  | t21  | t22  | t23  |
| t24  | t25  | t26  | t27  | t28  | t29  | t30  | t31  |
| t32  | t33  | t34  | t35  | t36  | t37  | t38  | t39  |
| t40  | t41  | t42  | t43  | t44  | t45  | t46  | t47  |
| t48  | t49  | t50  | t51  | t52  | t53  | t54  | t55  |
| t56  | t57  | t58  | t59  | t60  | t61  | t62  | t63  |
| t64  | t65  | t66  | t67  | t68  | t69  | t70  | t71  |
| t72  | t73  | t74  | t75  | t76  | t77  | t78  | t79  |
| t80  | t81  | t82  | t83  | t84  | t85  | t86  | t87  |
| t88  | t89  | t90  | t91  | t92  | t93  | t94  | t95  |
| t96  | t97  | t98  | t99  | t100 | t101 | t102 | t103 |
| t104 | t105 | t106 | t107 | t108 | t109 | t110 | t111 |
| t112 | t113 | t114 | t115 | t116 | t117 | t118 | t119 |
| t120 | t121 | t122 | t123 | t124 | t125 | t126 | t127 |

n=16

n=32

n=48

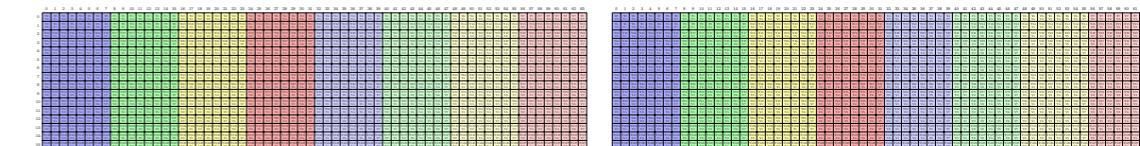
n=64

n=80

n=96

n=112

CUTE:



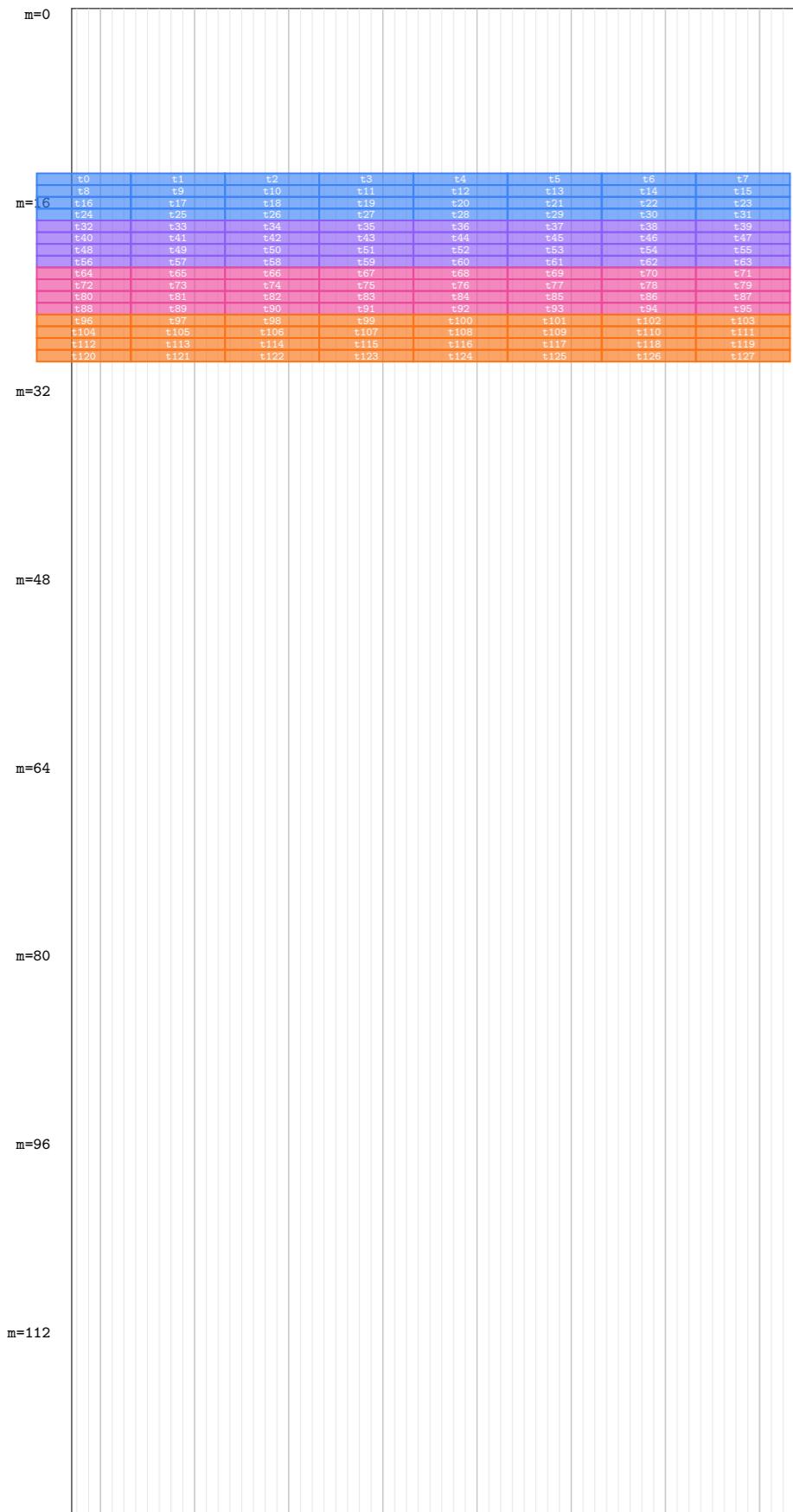
G2S A (m,k) pipe=2 k\_tile=0 step 1/7 (cm=1, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

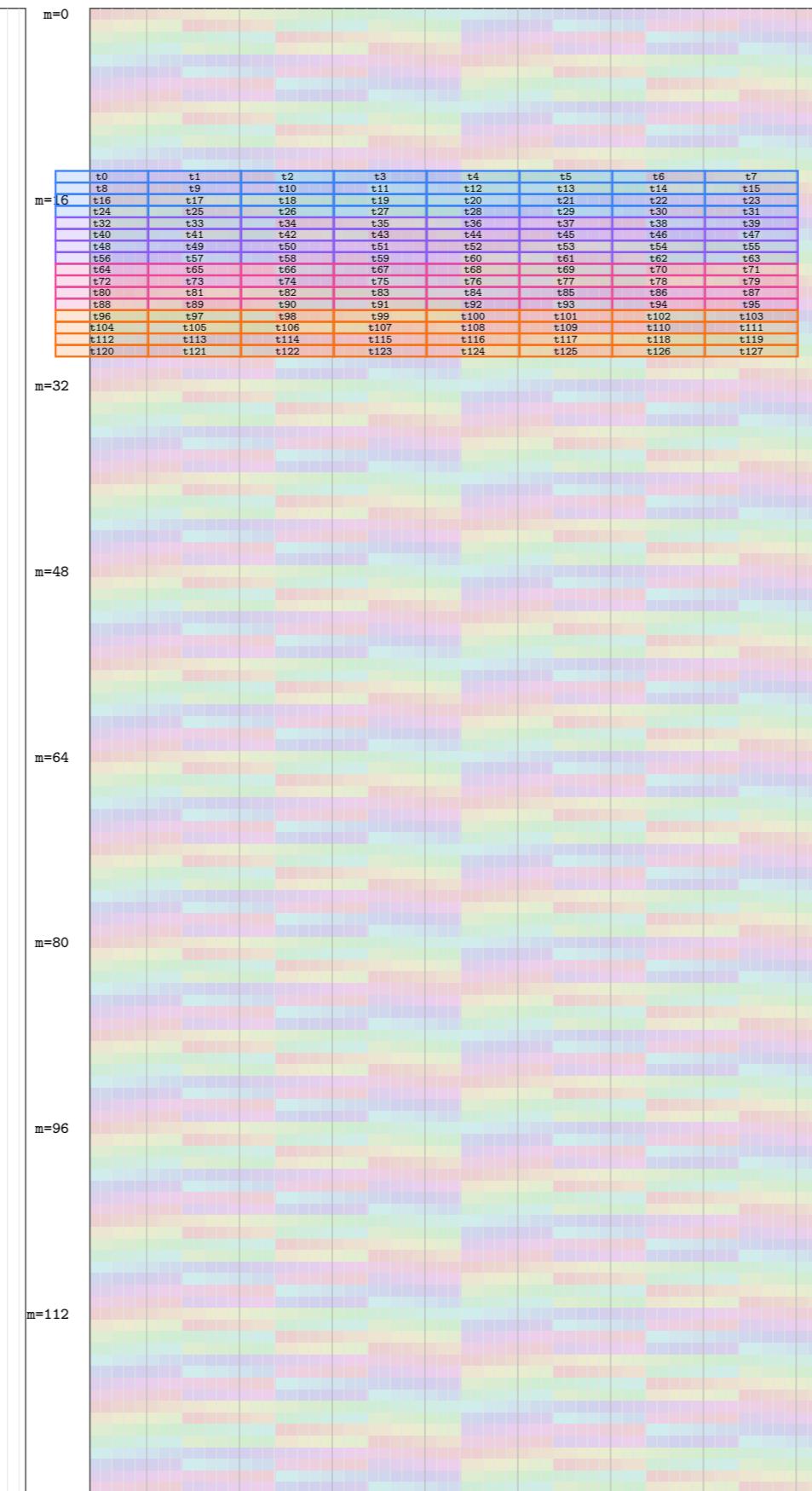
Overlay box = one thread cp.async. Text = tid.



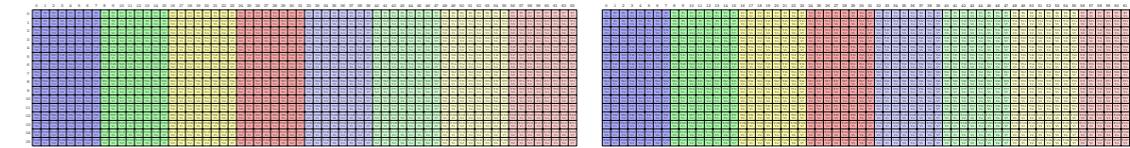
gA (m,k) CTA tile



sA (m,k) bank-colored



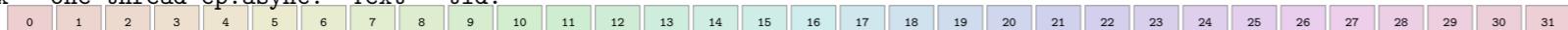
CUTE:



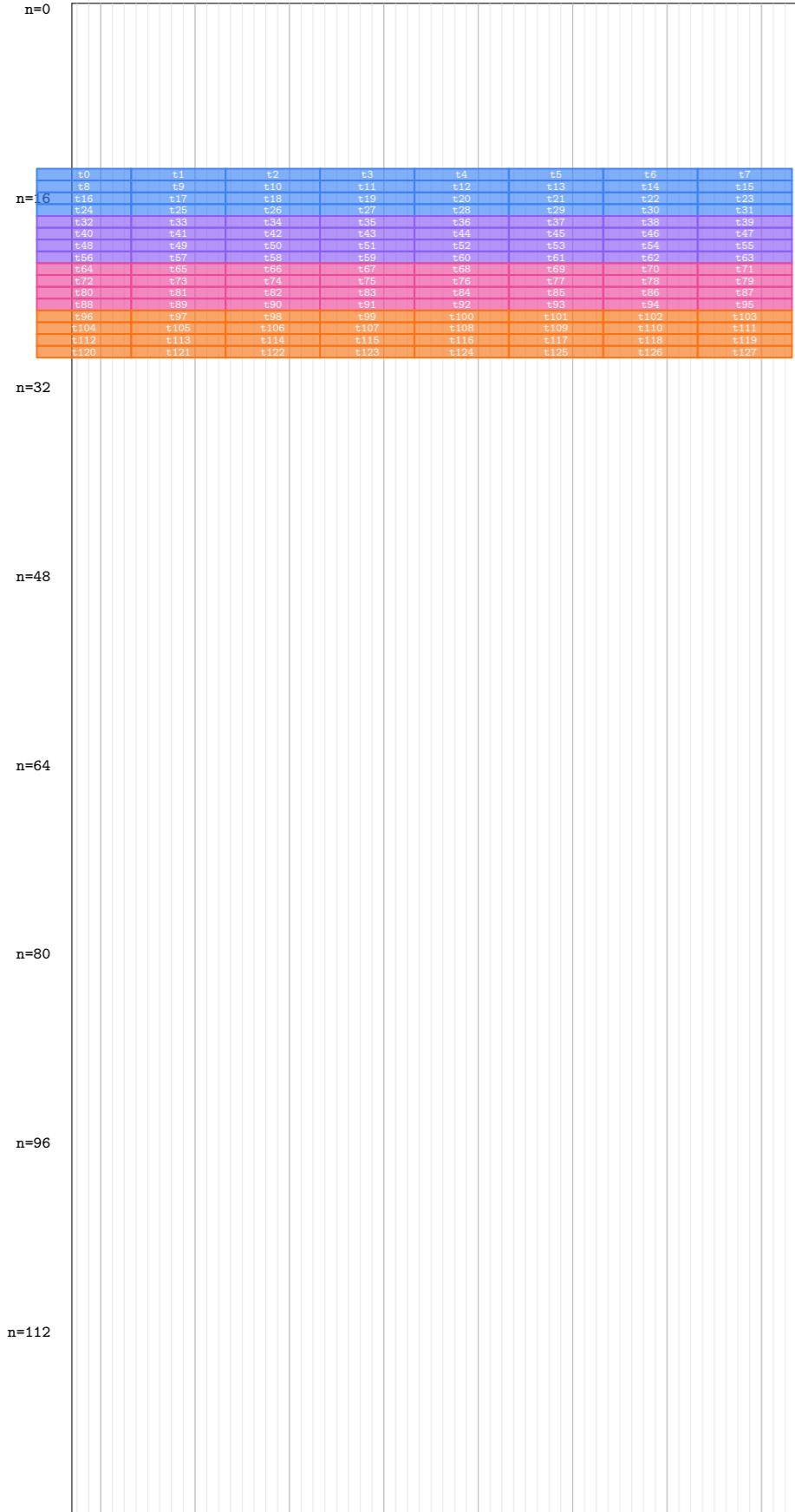
G2S B (n,k) pipe=2 k\_tile=0 step 1/7 (cm=1, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

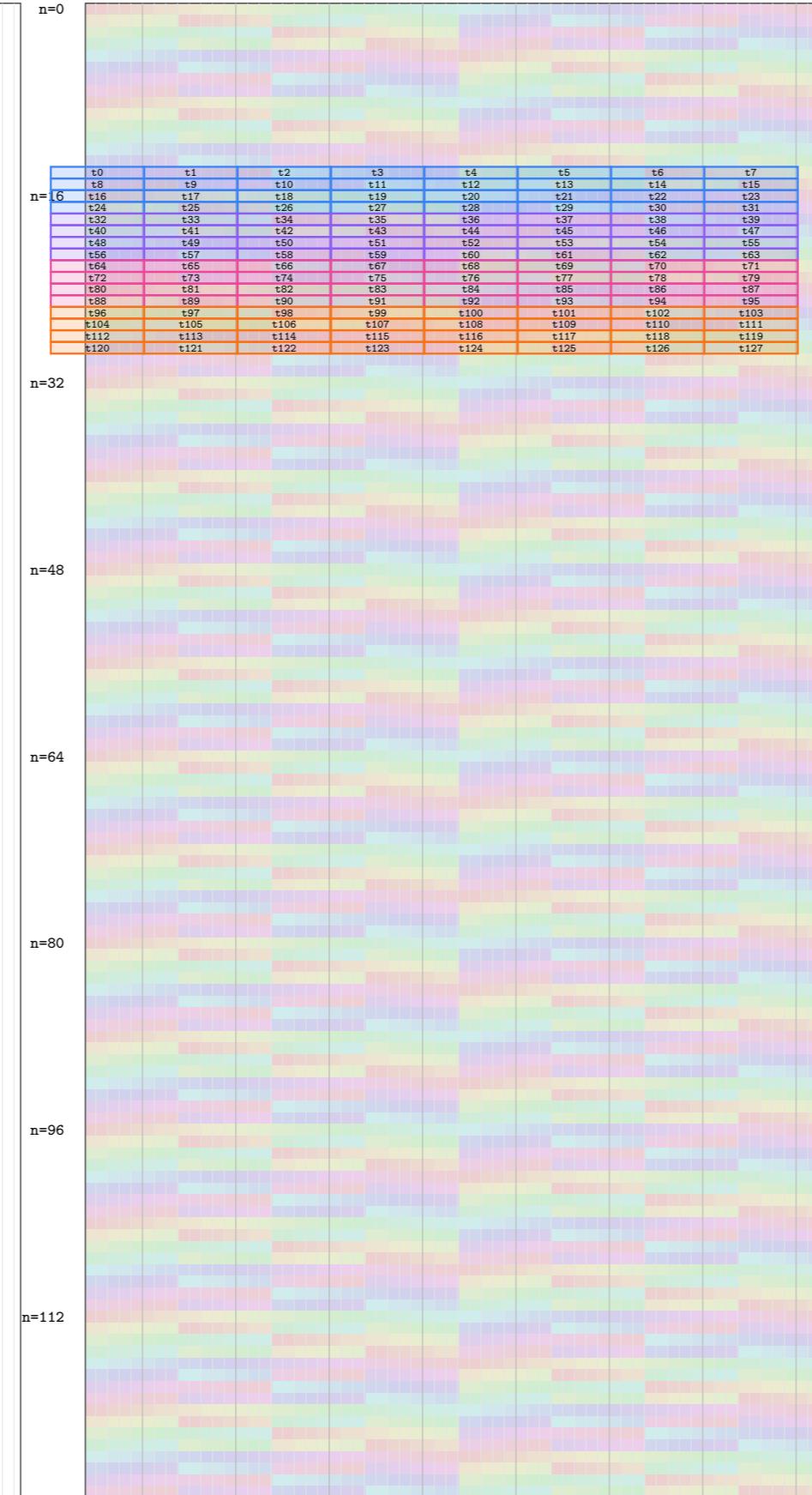
Overlay box = one thread cp.async. Text = tid.



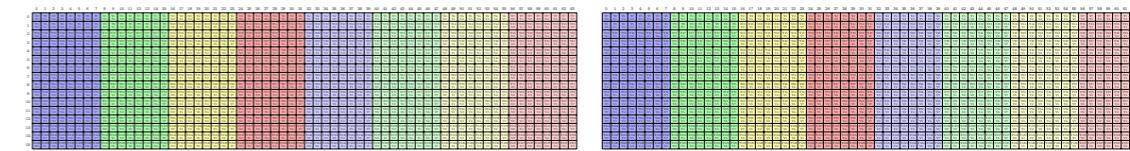
gB (n,k) CTA tile



sB (n,k) bank-colored



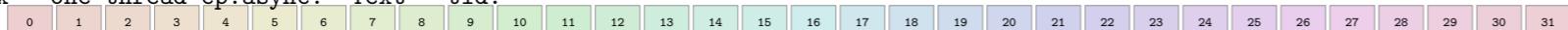
CUTE:



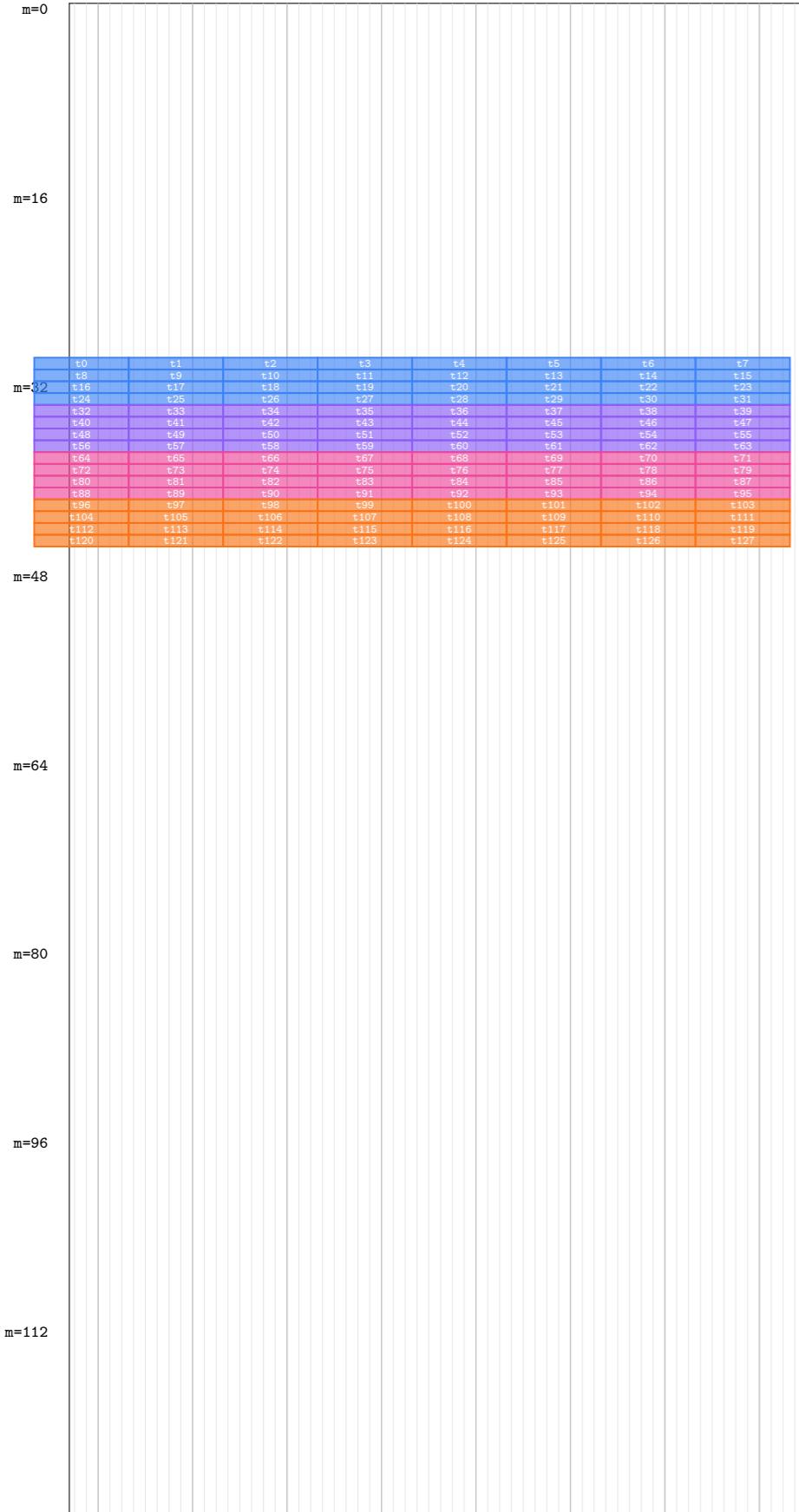
G2S A (m,k) pipe=2 k\_tile=0 step 2/7 (cm=2, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

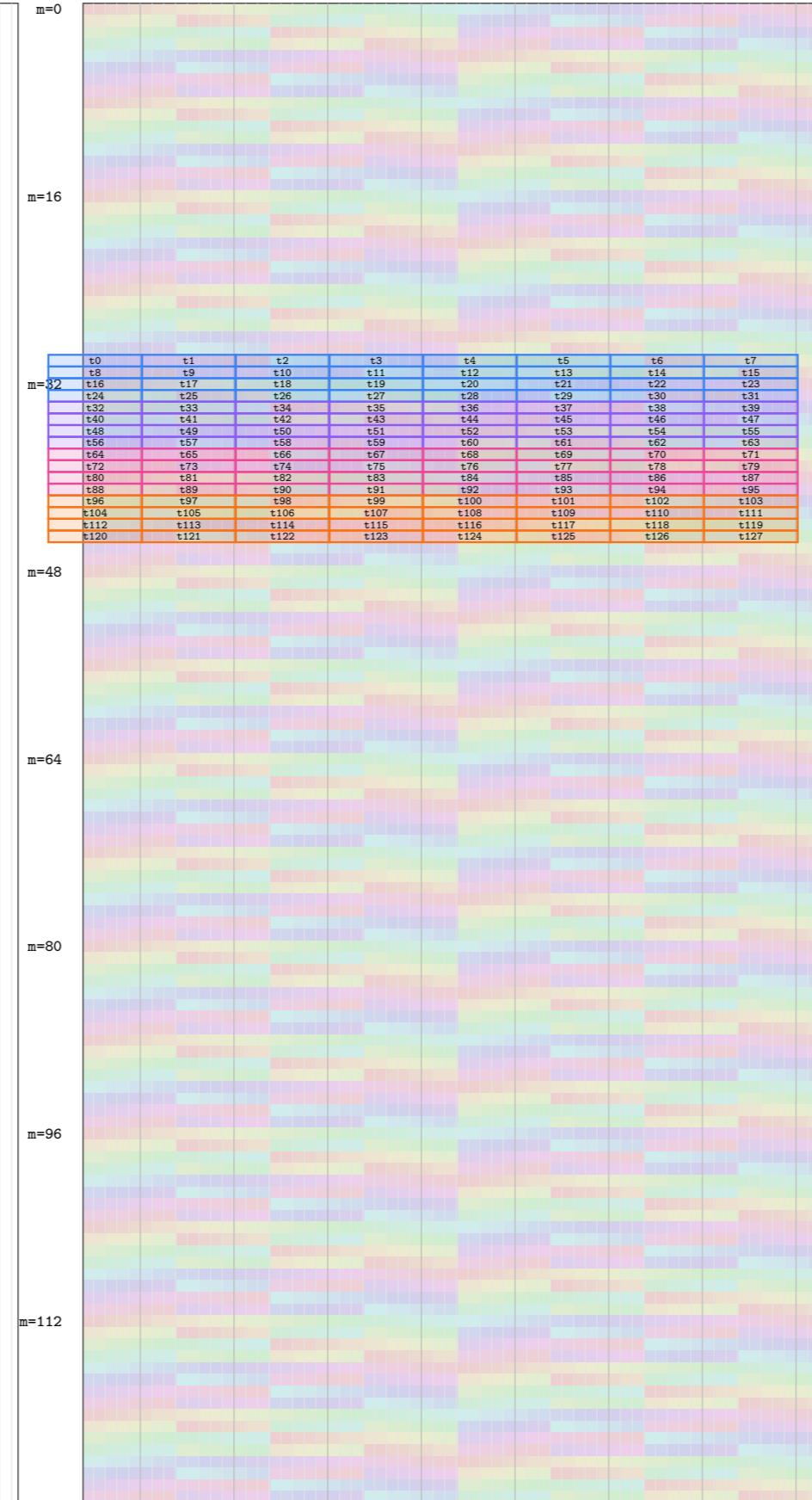
Overlay box = one thread cp.async. Text = tid.



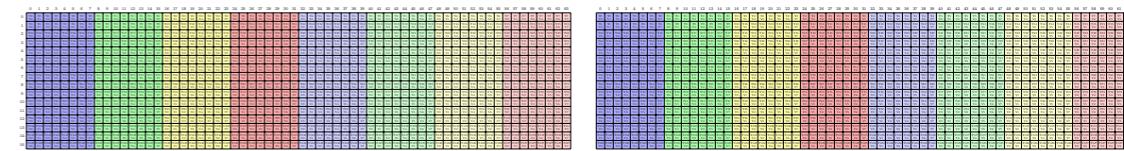
gA (m,k) CTA tile



sA (m,k) bank-colored



CUTE:

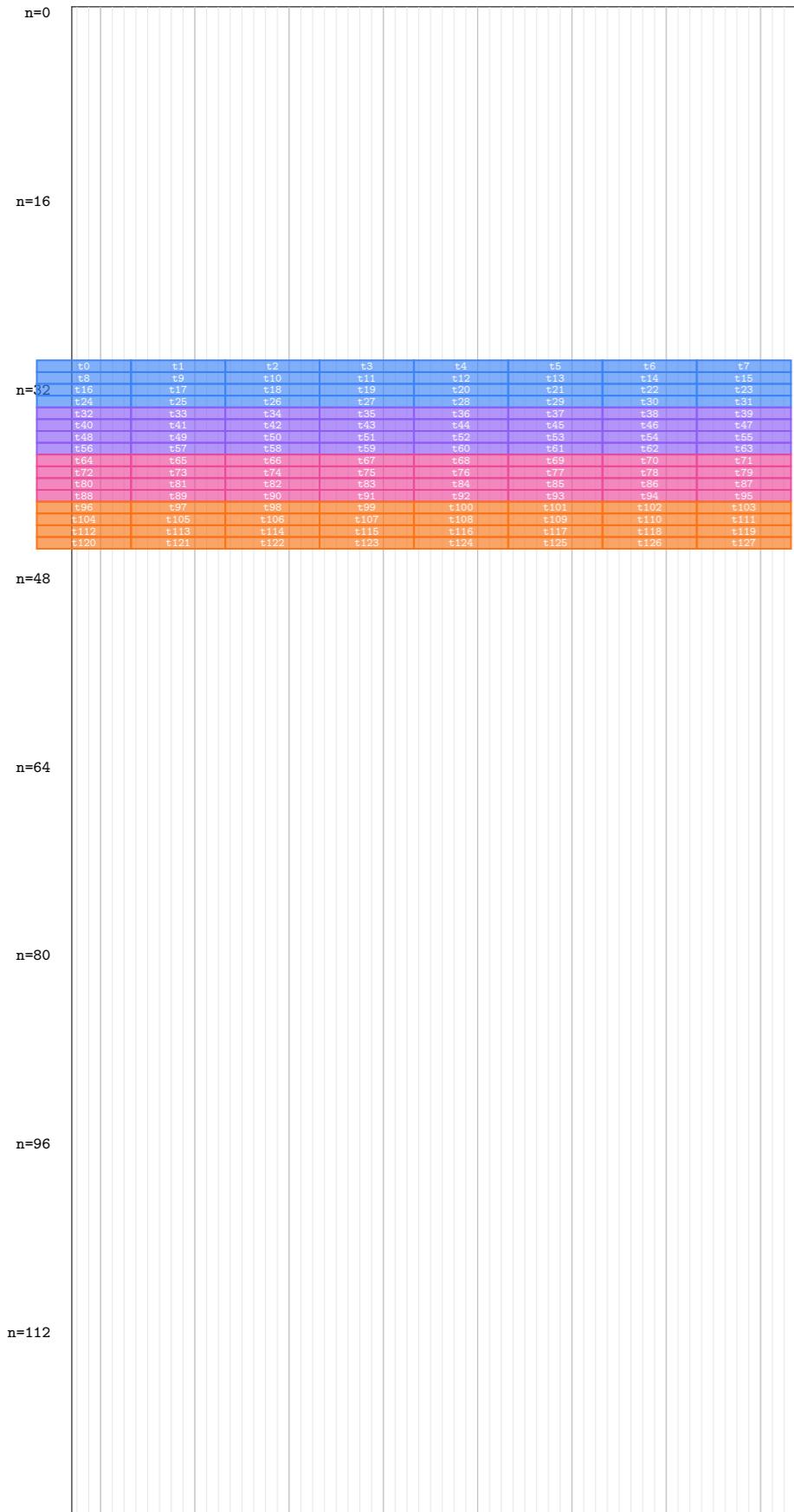


G2S B (n,k) pipe=2 k\_tile=0 step 2/7 (cm=2, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

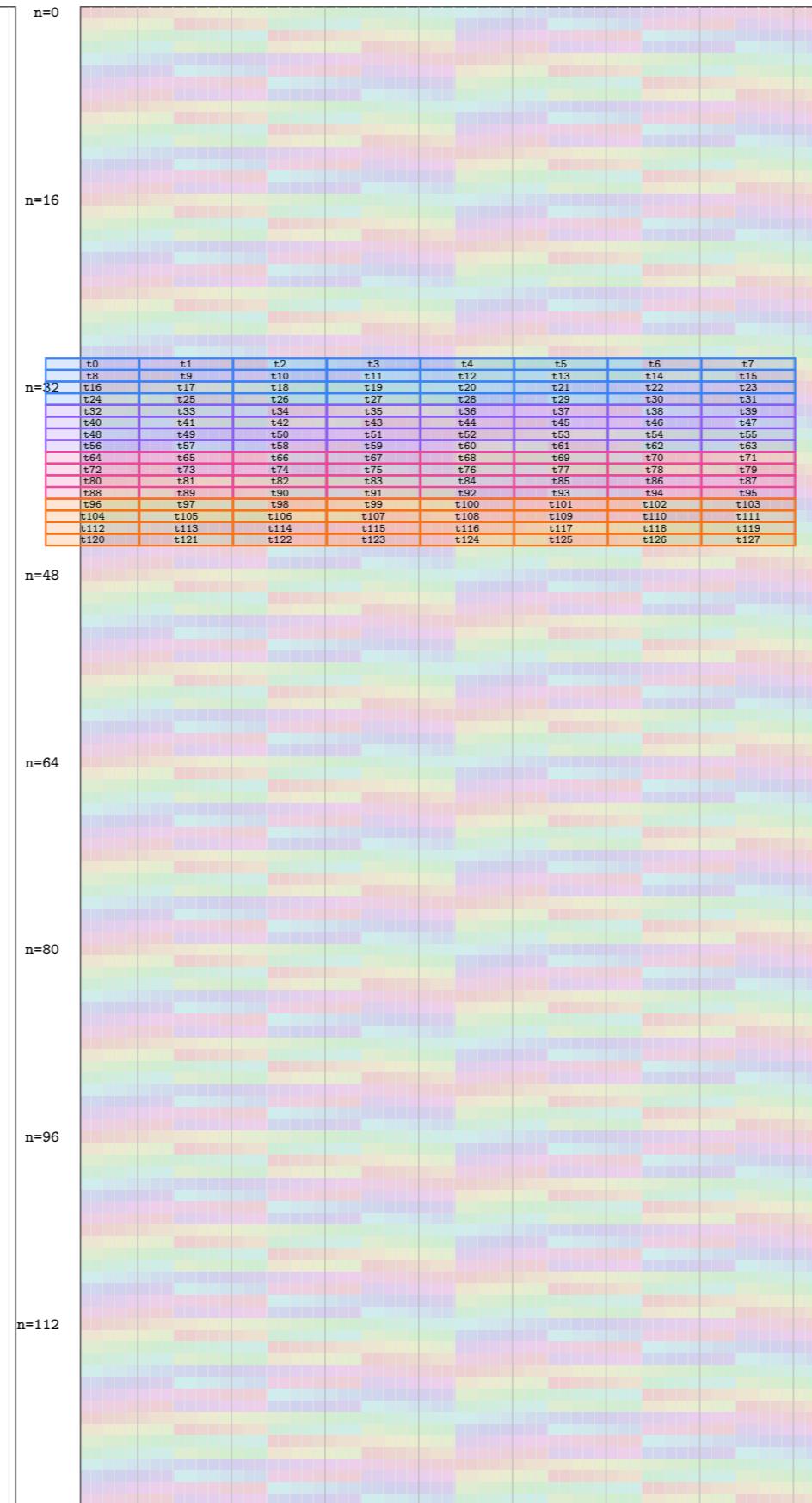
Overlay box = one thread cp.async. Text = tid.

W0 W1 W2 W3

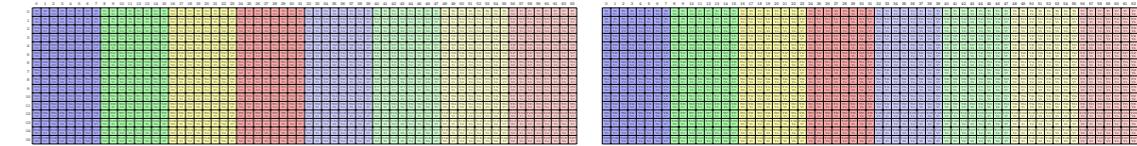
gB (n,k) CTA tile



sB (n,k) bank-colored



CUTE:



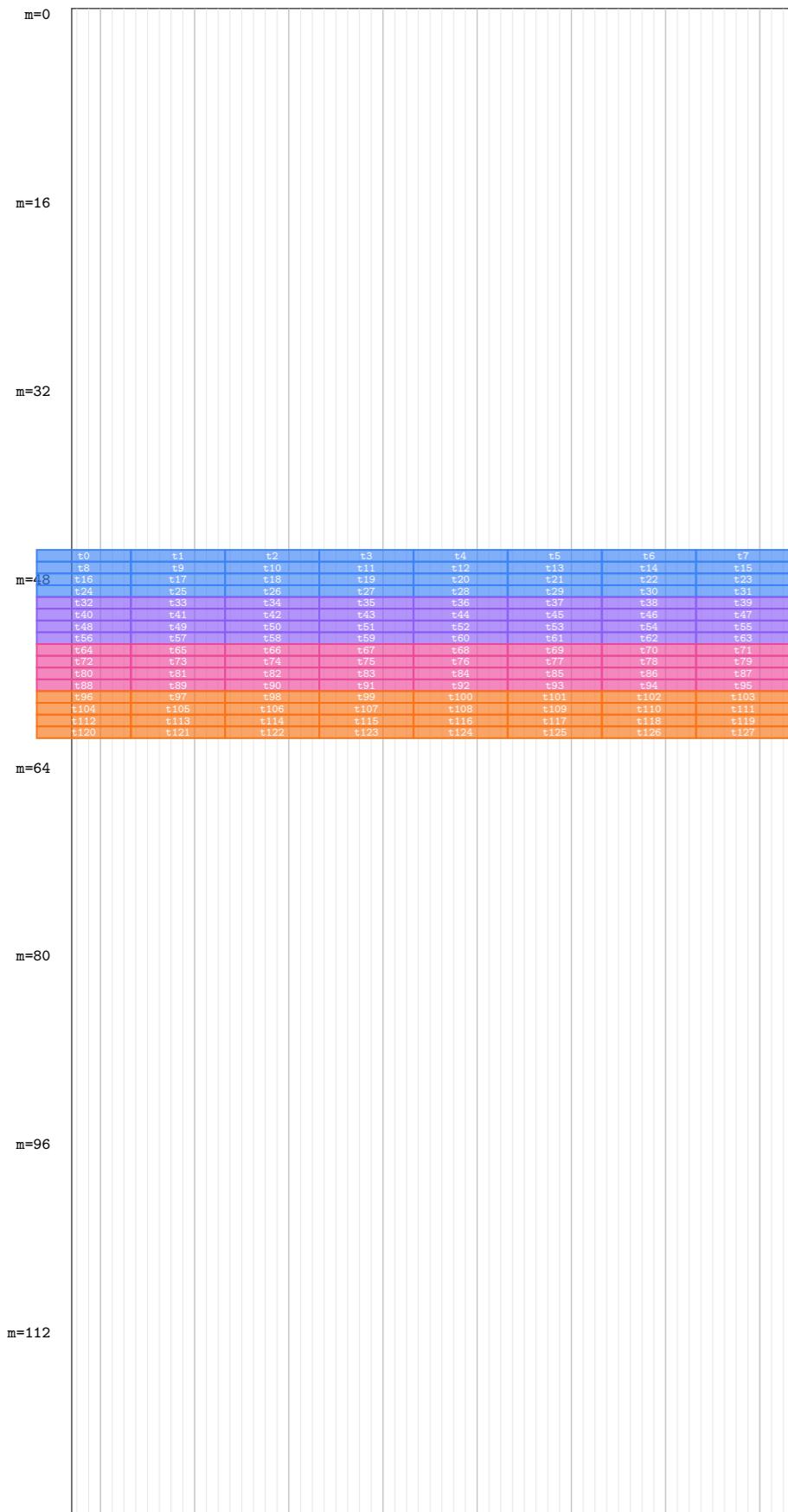
G2S A (m,k) pipe=2 k\_tile=0 step 3/7 (cm=3, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

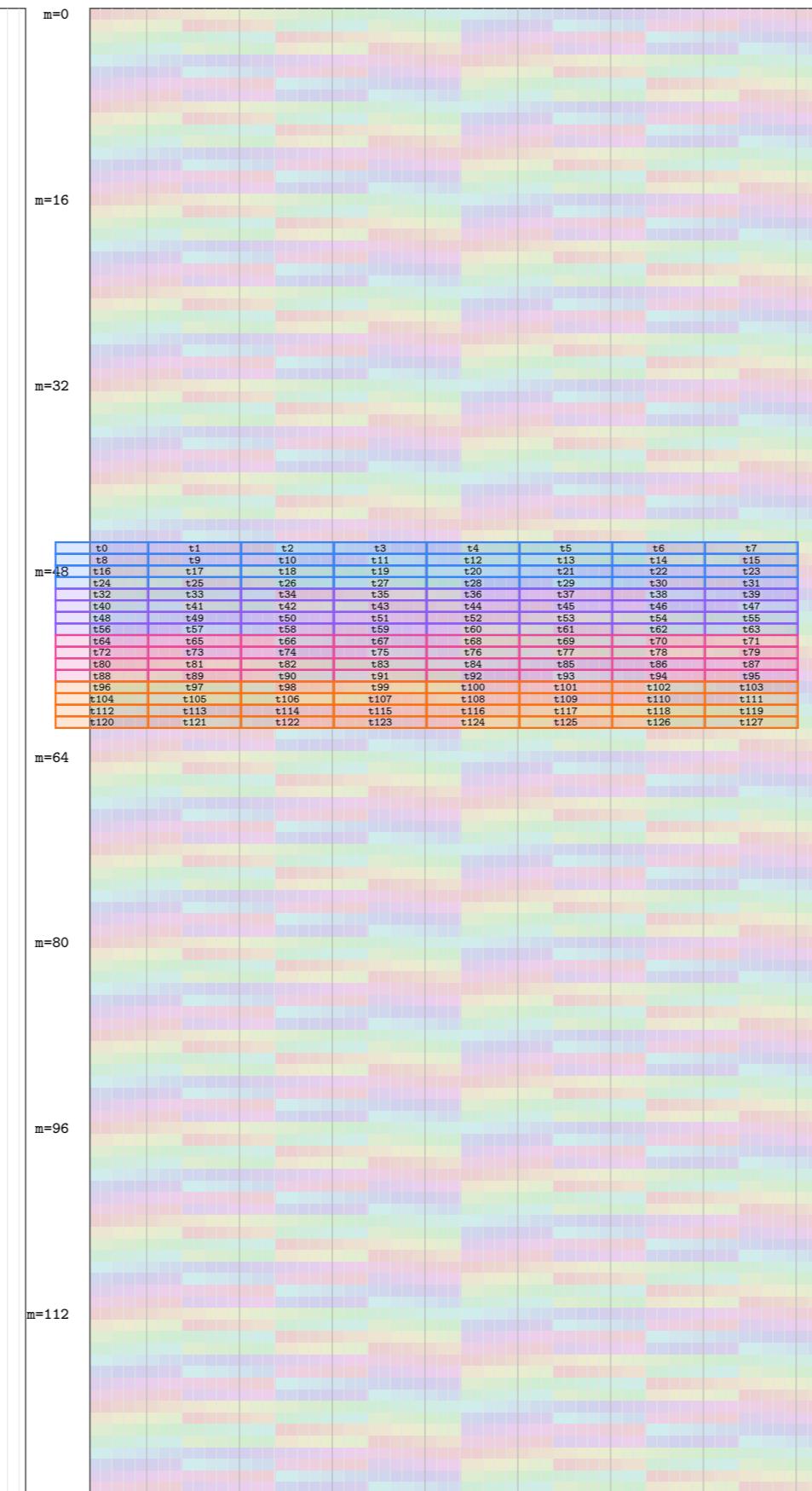
Overlay box = one thread cp.async. Text = tid.



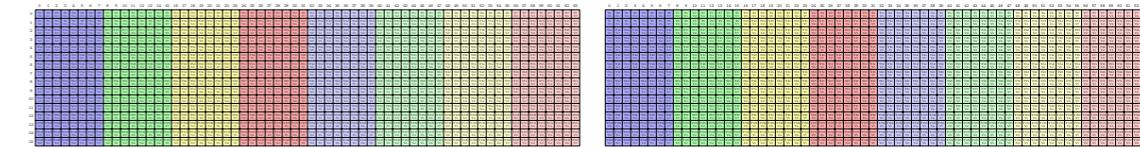
gA (m,k) CTA tile



sA (m,k) bank-colored



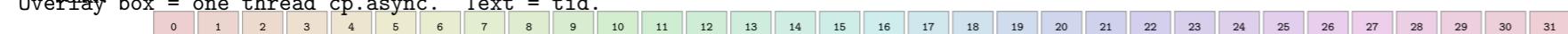
CUTE:



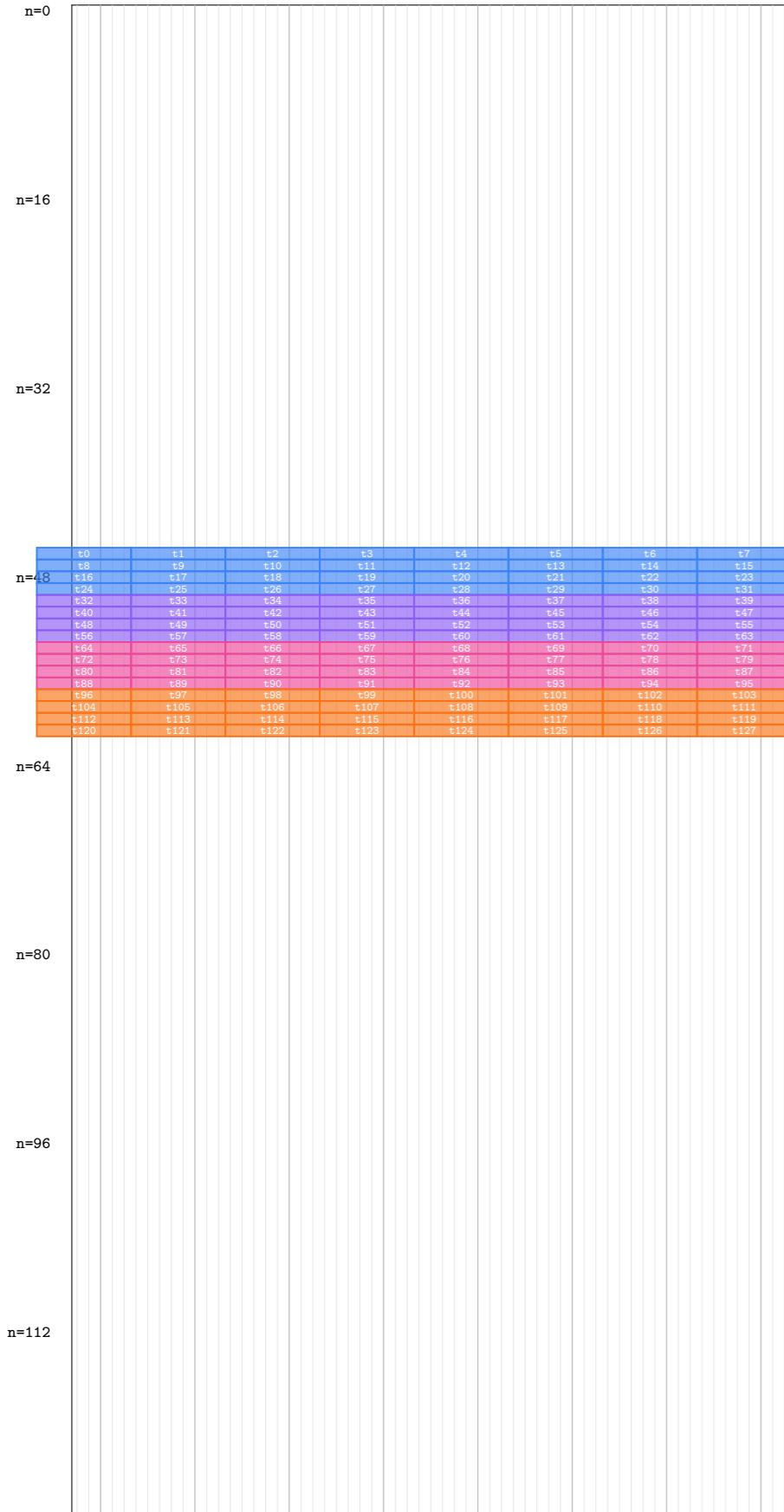
G2S B (n,k) pipe=2 k\_tile=0 step 3/7 (cm=3, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

Overlay box = one thread cp.async. Text = tid.

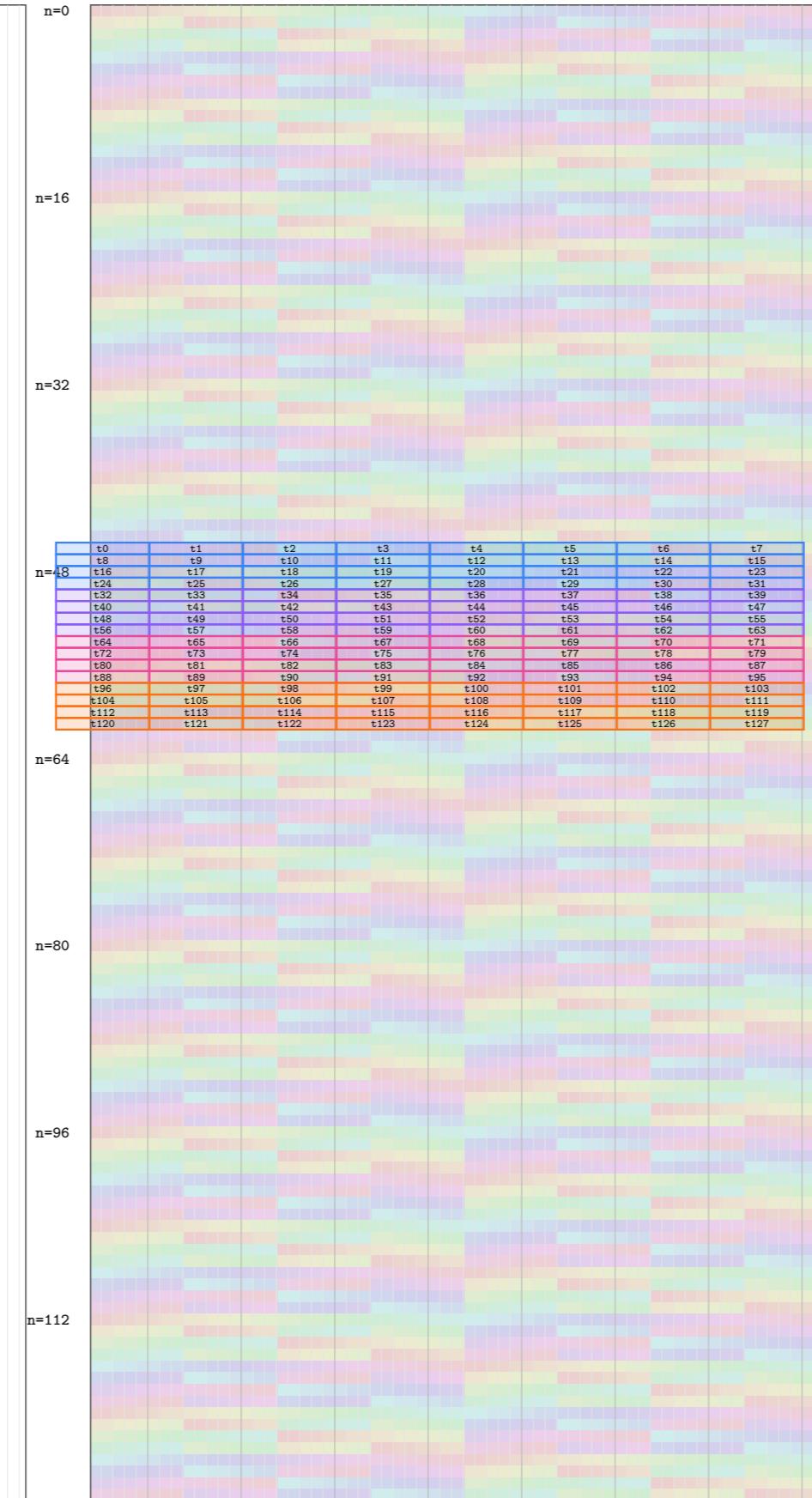
W0 W1 W2 W3



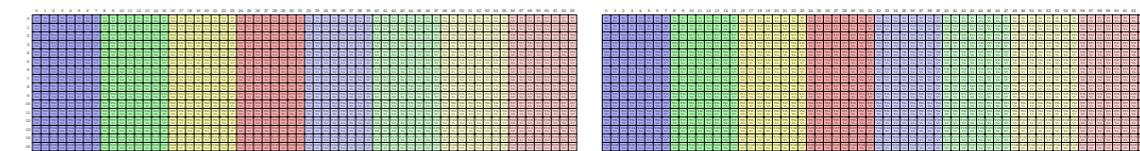
gB (n,k) CTA tile



sB (n,k) bank-colored



CUTE:



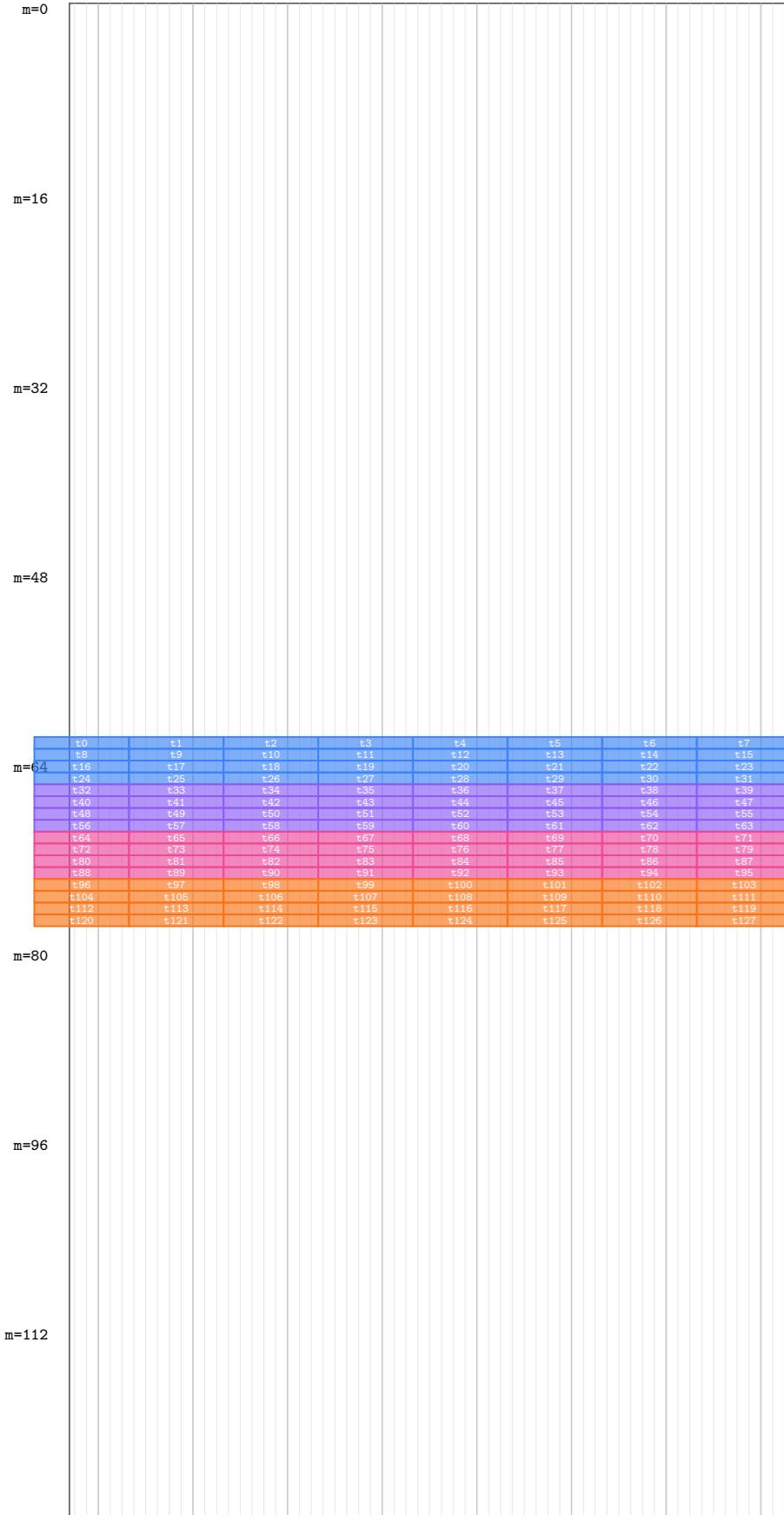
G2S A (m,k) pipe=2 k\_tile=0 step 4/7 (cm=4, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

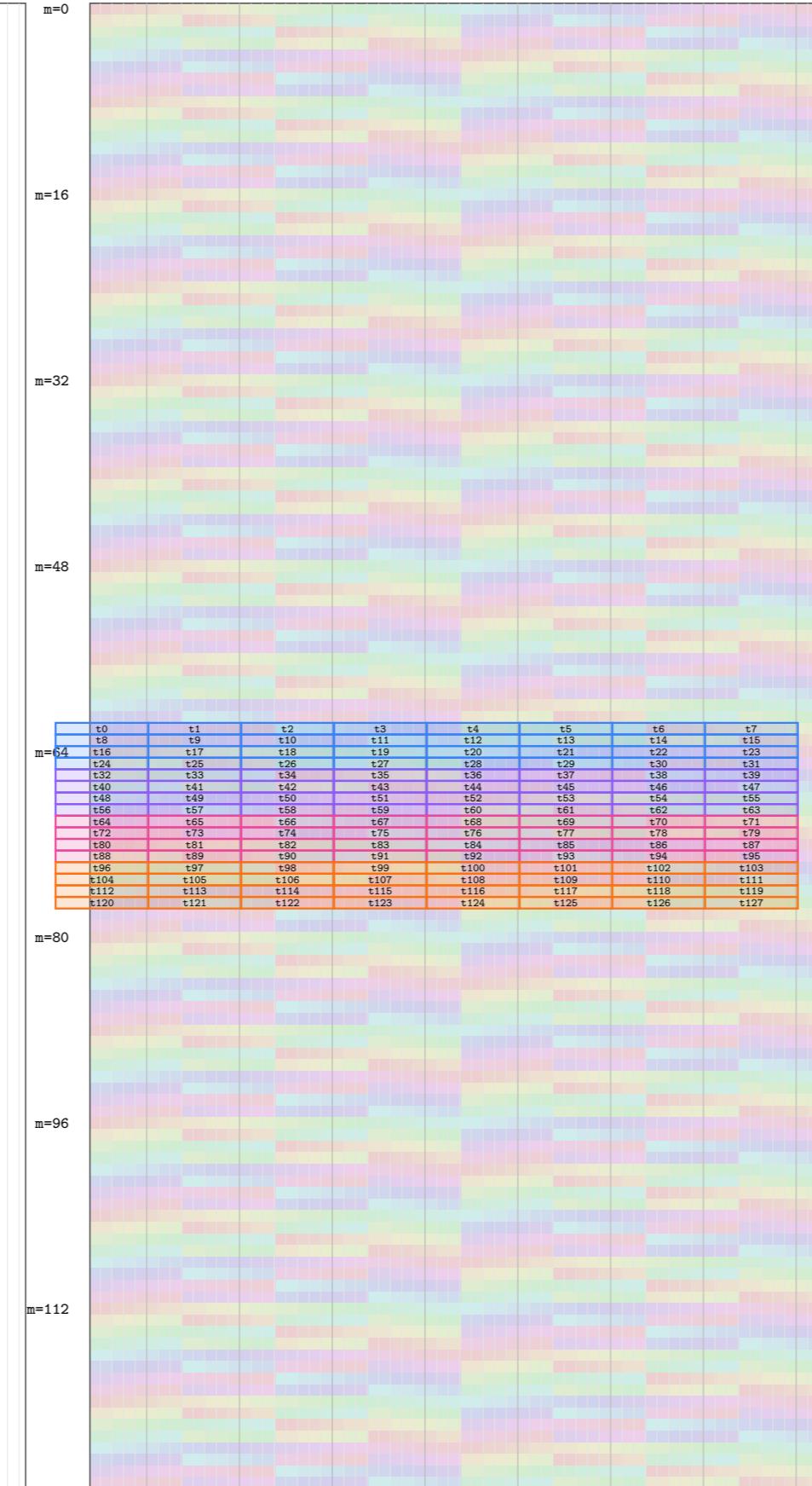
Overlay box = one thread cp.async. Text = tid.



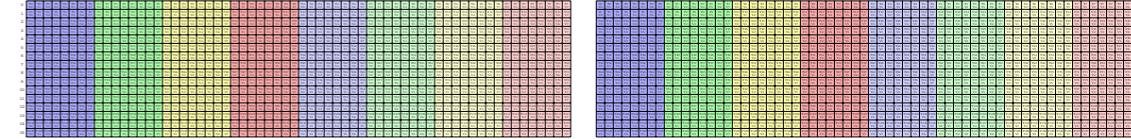
gA (m,k) CTA tile



sA (m,k) bank-colored



CUTE:



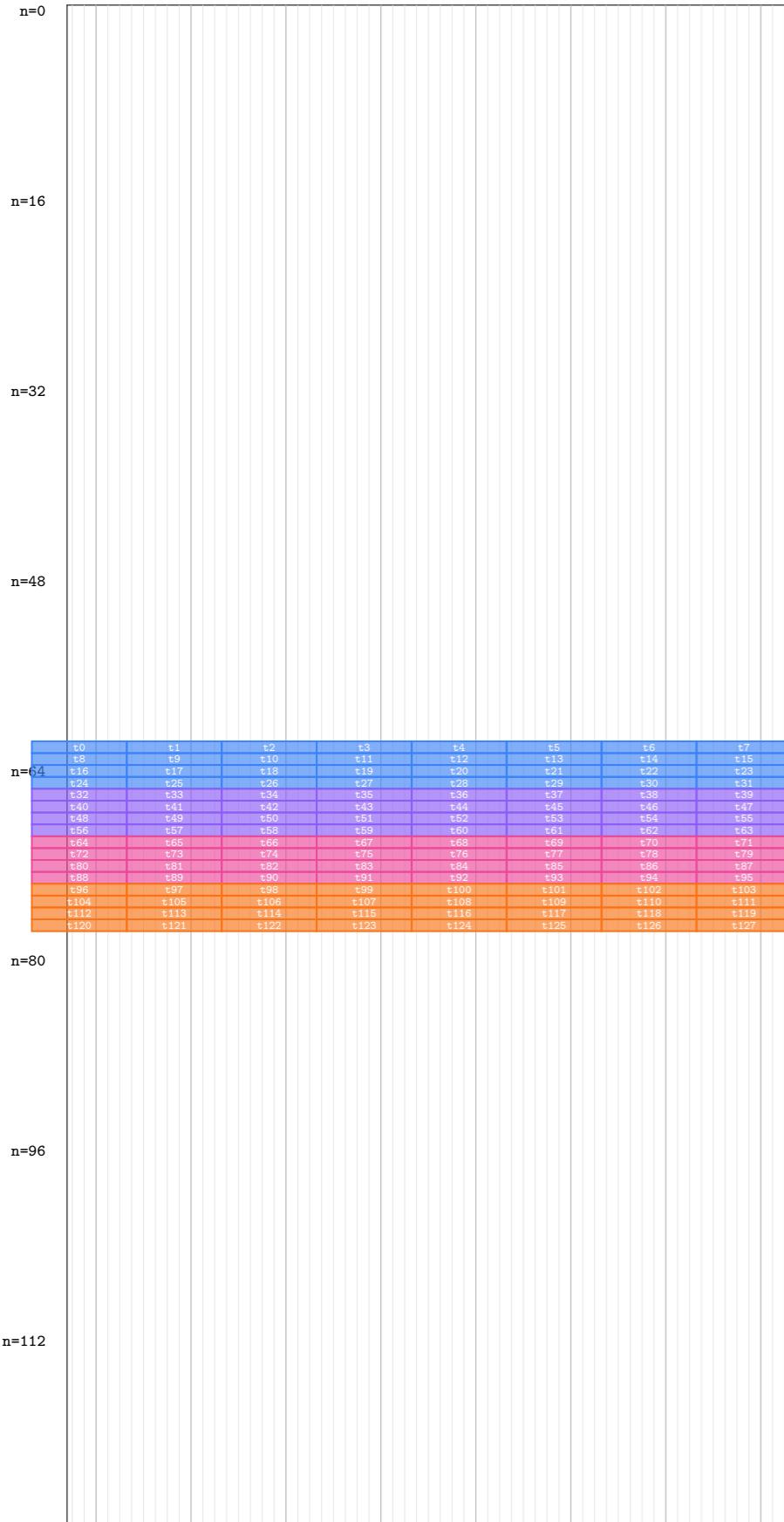
G2S B (n,k) pipe=2 k\_tile=0 step 4/7 (cm=4, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

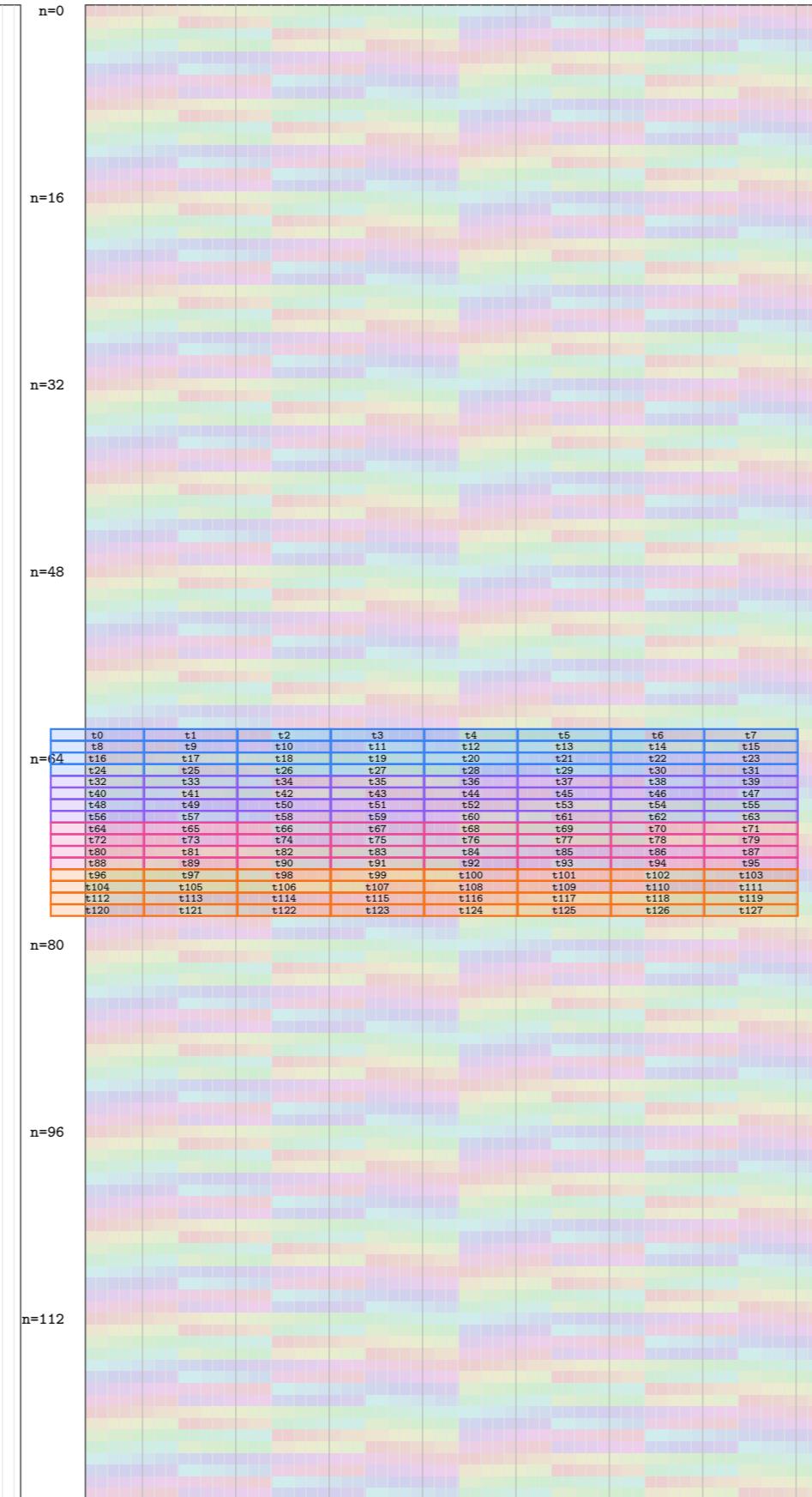
Overlay box = one thread cp.async. Text = tid.



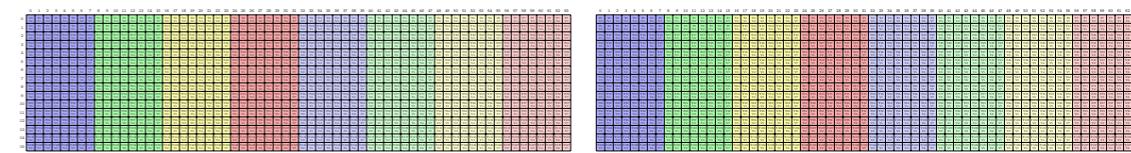
gB (n,k) CTA tile



sB (n,k) bank-colored



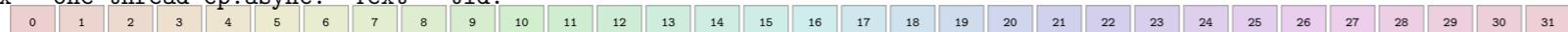
CUTE:



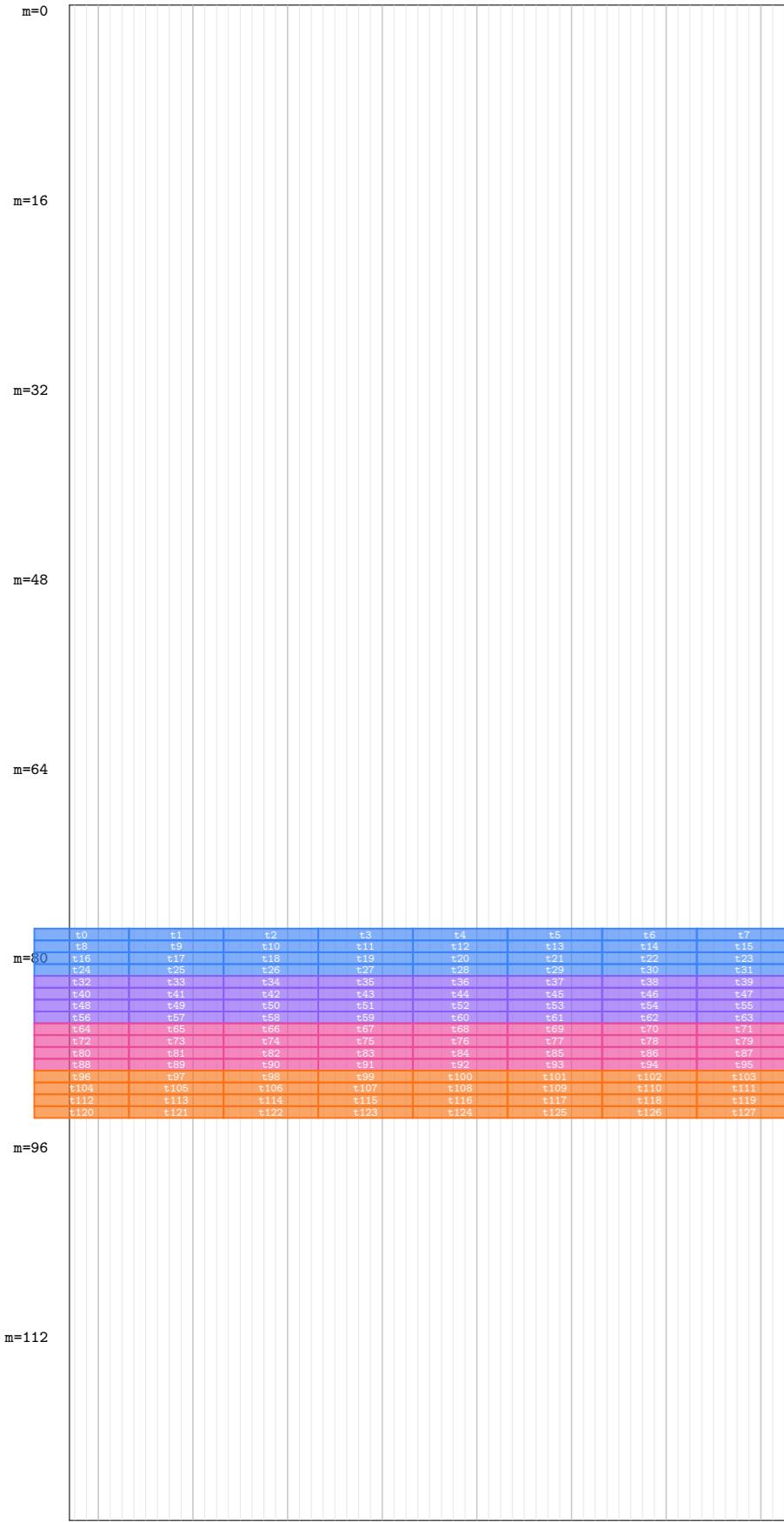
G2S A (m,k) pipe=2 k\_tile=0 step 5/7 (cm=5, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

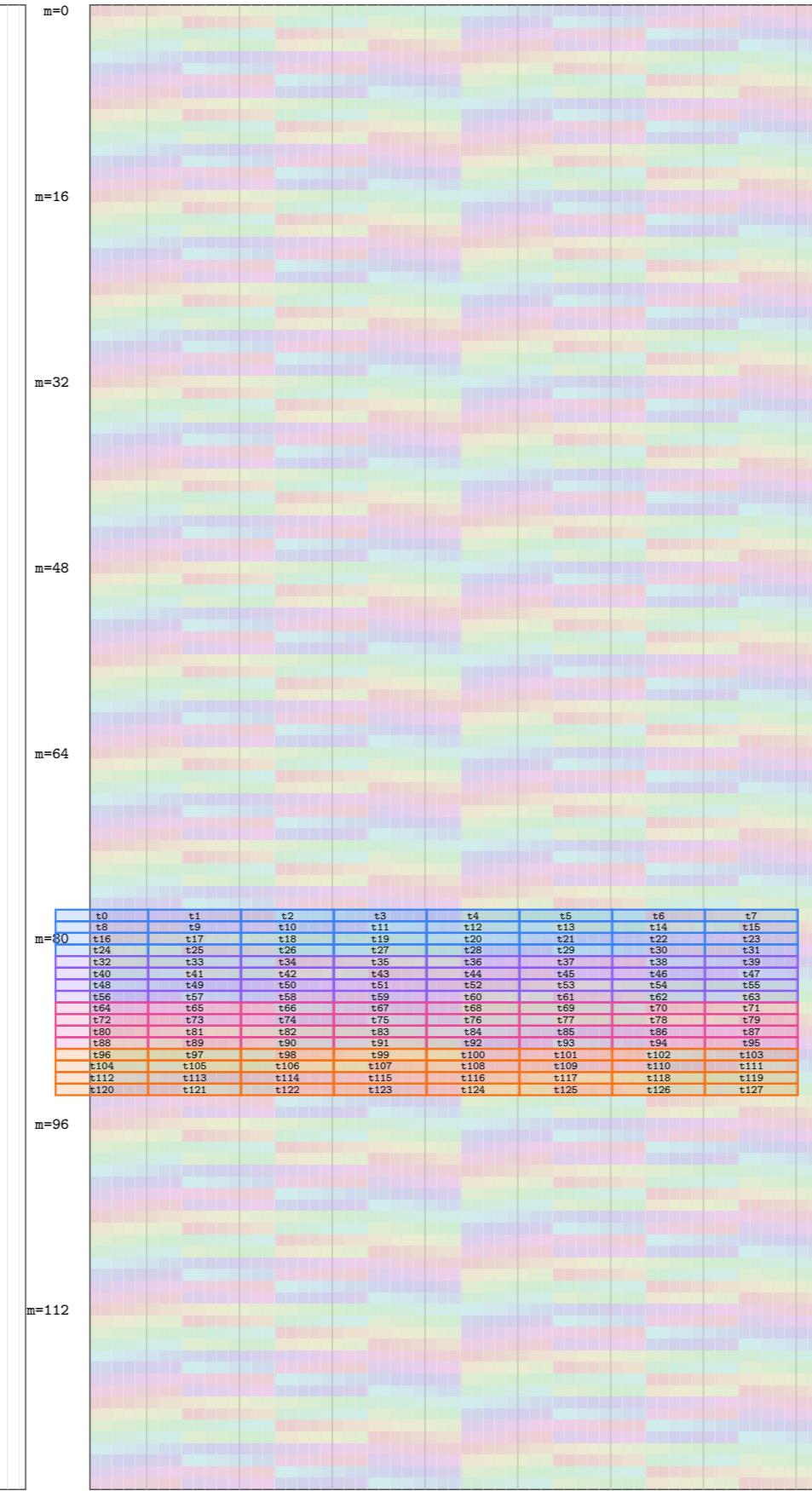
Overlay box = one thread cp.async. Text = tid.



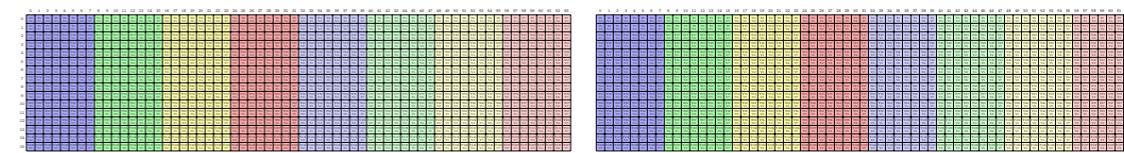
gA (m,k) CTA tile



sA (m,k) bank-colored



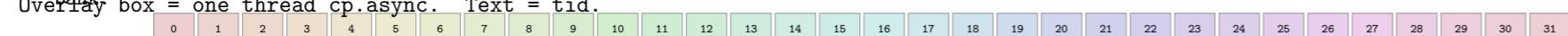
CUTE:



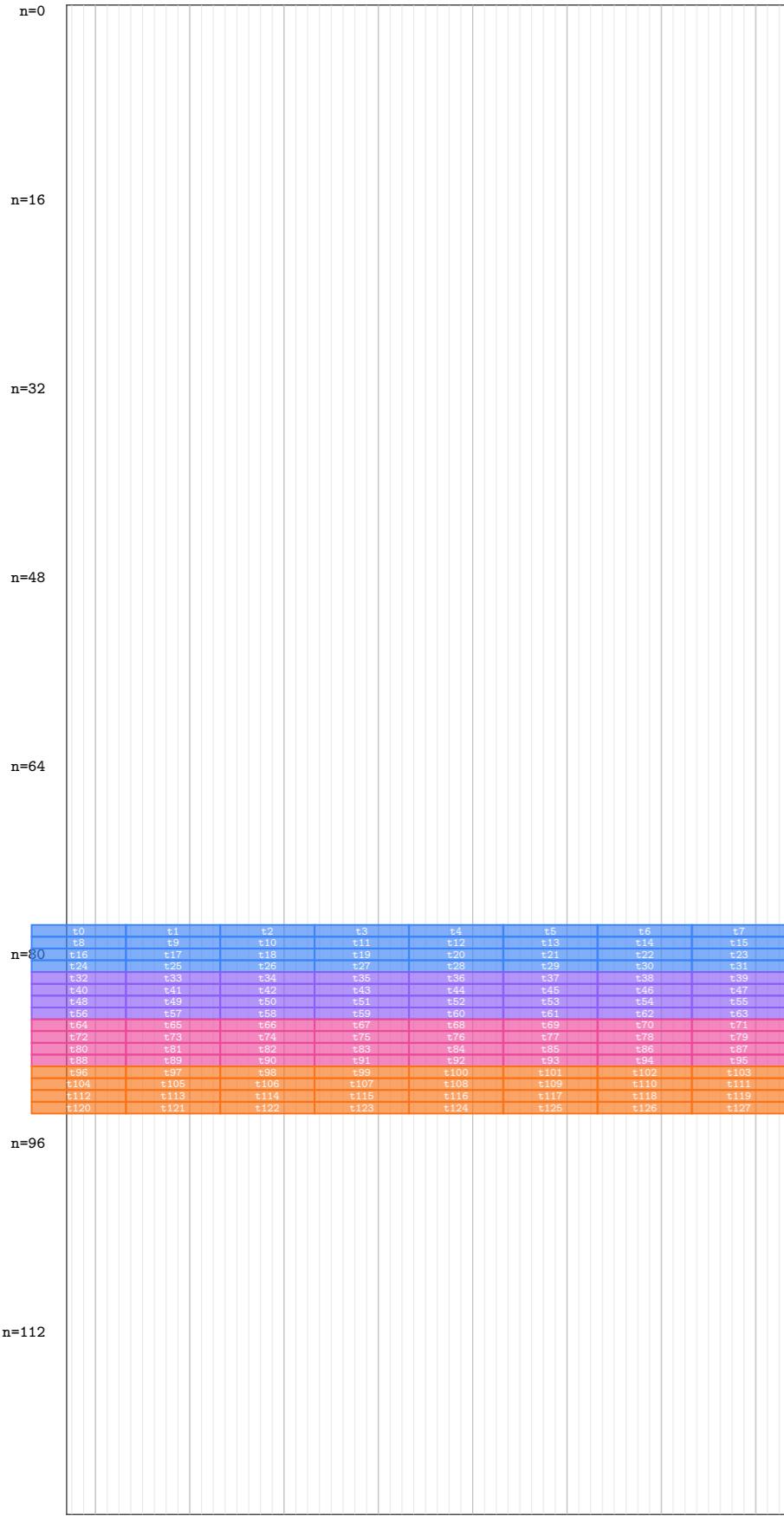
G2S B (n,k) pipe=2 k\_tile=0 step 5/7 (cm=5, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

Overlay box = one thread cp.async. Text = tid.

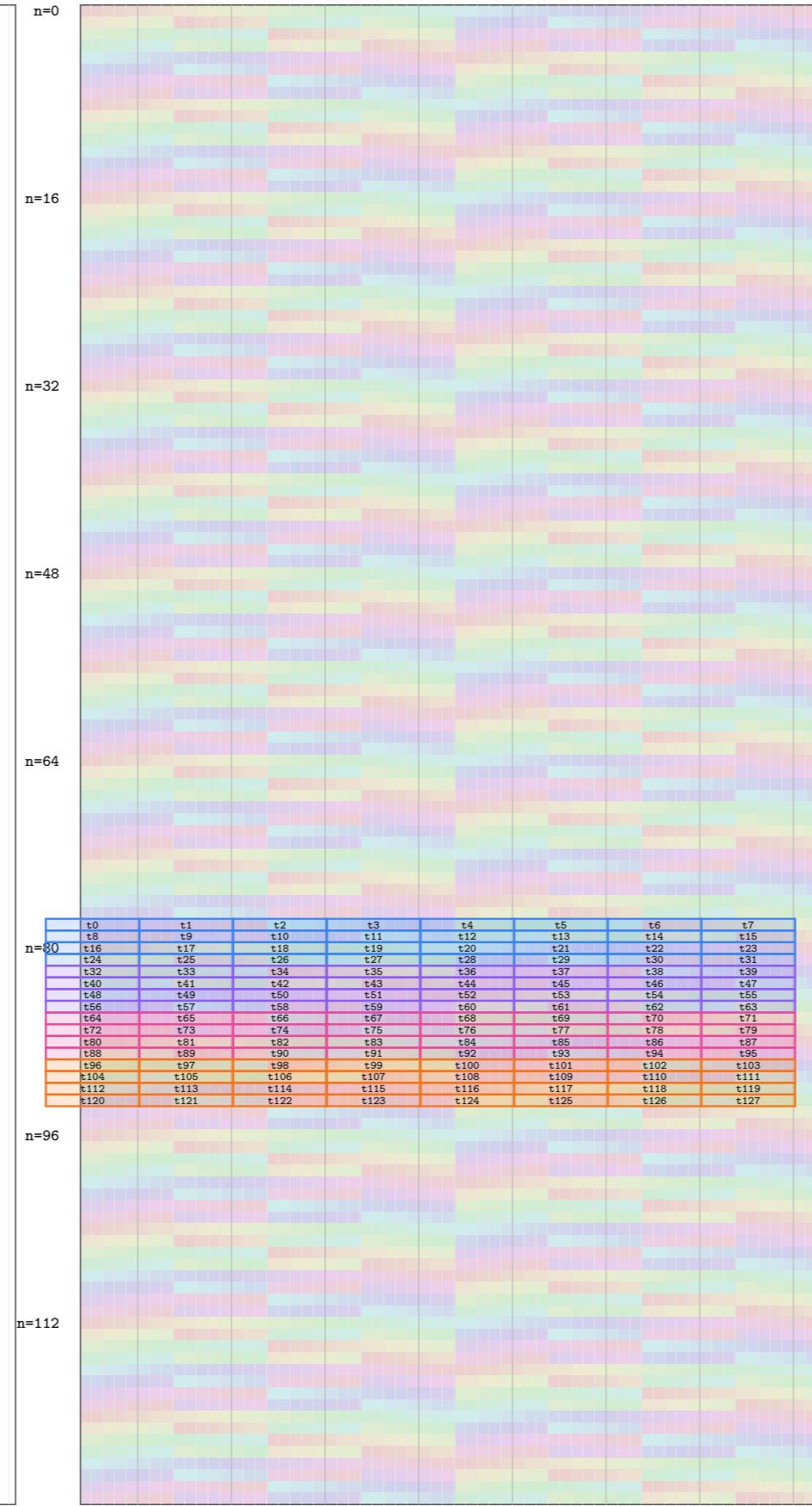
W0 W1 W2 W3



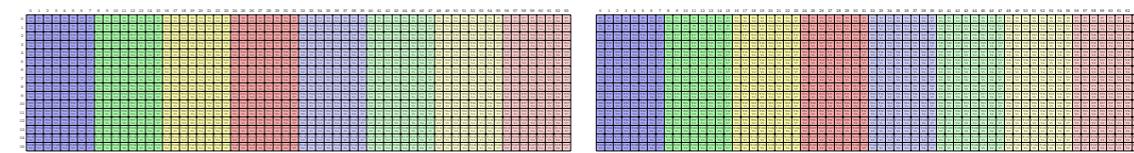
gB (n,k) CTA tile



sB (n,k) bank-colored



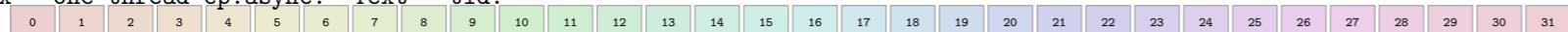
CUTE:



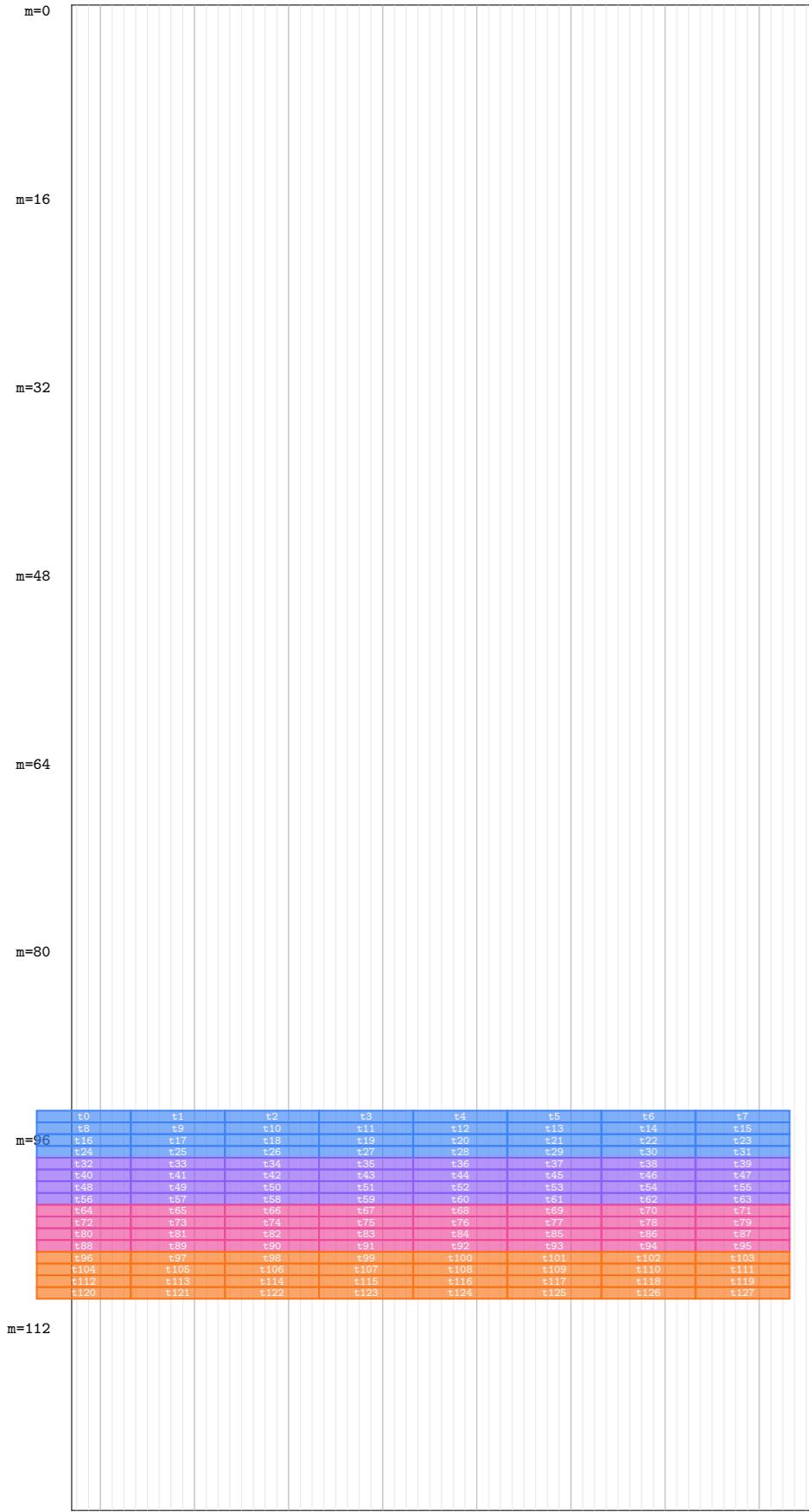
G2S A (m,k) pipe=2 k\_tile=0 step 6/7 (cm=6, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

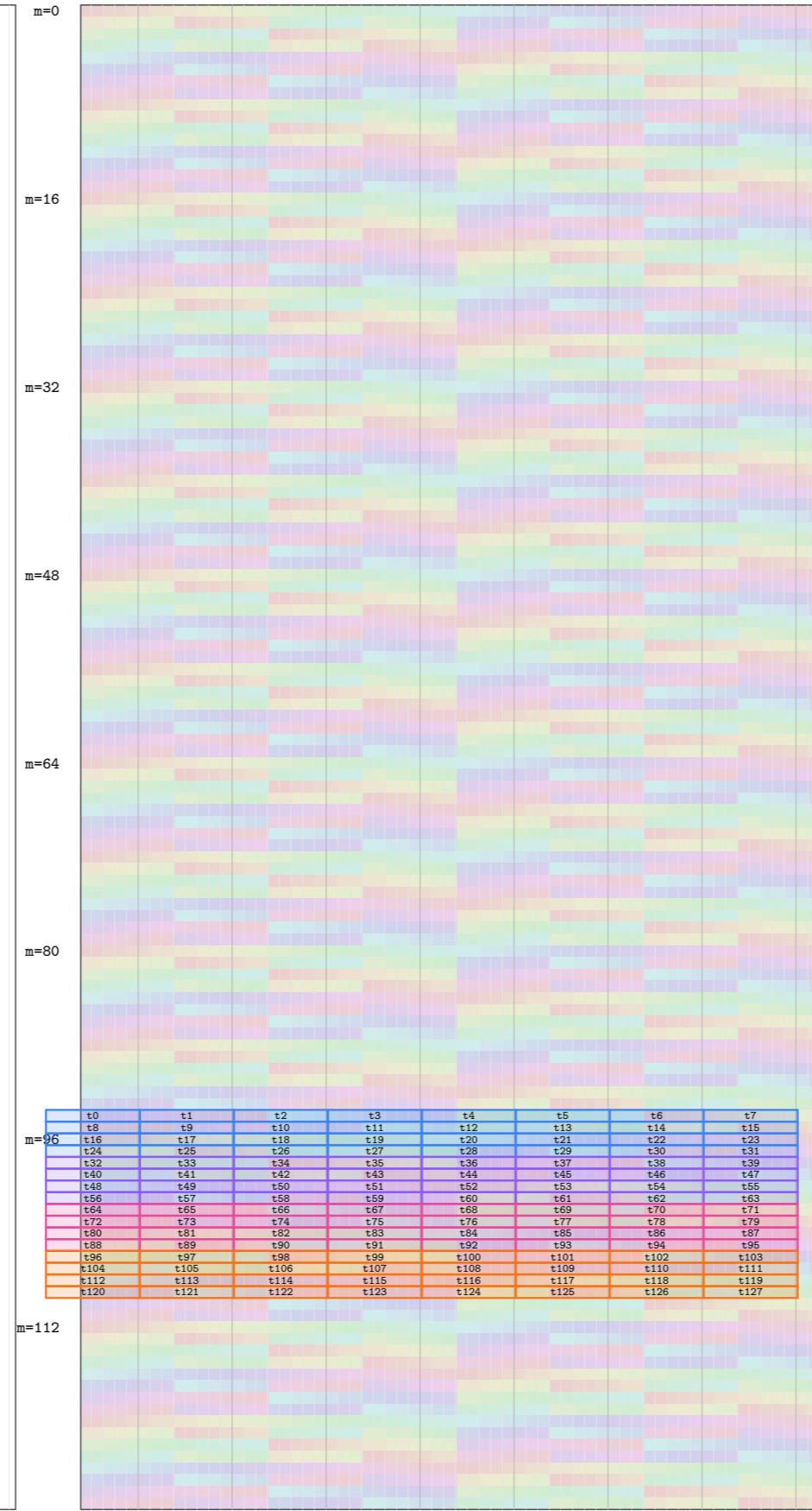
Overlay box = one thread cp.async. Text = tid.



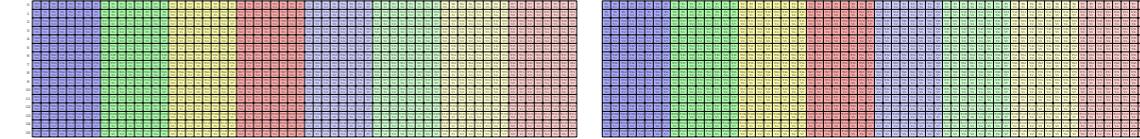
gA (m,k) CTA tile



sA (m,k) bank-colored



CUTE:



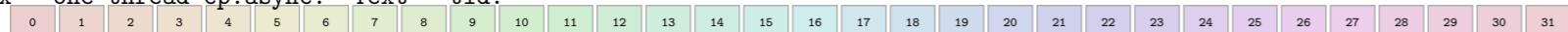
|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| t0   | t1   | t2   | t3   | t4   | t5   | t6   | t7   |
| t8   | t9   | t10  | t11  | t12  | t13  | t14  | t15  |
| t16  | t17  | t18  | t19  | t20  | t21  | t22  | t23  |
| t24  | t25  | t26  | t27  | t28  | t29  | t30  | t31  |
| t32  | t33  | t34  | t35  | t36  | t37  | t38  | t39  |
| t40  | t41  | t42  | t43  | t44  | t45  | t46  | t47  |
| t48  | t49  | t50  | t51  | t52  | t53  | t54  | t55  |
| t56  | t57  | t58  | t59  | t60  | t61  | t62  | t63  |
| t64  | t65  | t66  | t67  | t68  | t69  | t70  | t71  |
| t72  | t73  | t74  | t75  | t76  | t77  | t78  | t79  |
| t80  | t81  | t82  | t83  | t84  | t85  | t86  | t87  |
| t88  | t89  | t90  | t91  | t92  | t93  | t94  | t95  |
| t96  | t97  | t98  | t99  | t100 | t101 | t102 | t103 |
| t104 | t105 | t106 | t107 | t108 | t109 | t110 | t111 |
| t112 | t113 | t114 | t115 | t116 | t117 | t118 | t119 |
| t120 | t121 | t122 | t123 | t124 | t125 | t126 | t127 |

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| t0   | t1   | t2   | t3   | t4   | t5   | t6   | t7   |
| t8   | t9   | t10  | t11  | t12  | t13  | t14  | t15  |
| t16  | t17  | t18  | t19  | t20  | t21  | t22  | t23  |
| t24  | t25  | t26  | t27  | t28  | t29  | t30  | t31  |
| t32  | t33  | t34  | t35  | t36  | t37  | t38  | t39  |
| t40  | t41  | t42  | t43  | t44  | t45  | t46  | t47  |
| t48  | t49  | t50  | t51  | t52  | t53  | t54  | t55  |
| t56  | t57  | t58  | t59  | t60  | t61  | t62  | t63  |
| t64  | t65  | t66  | t67  | t68  | t69  | t70  | t71  |
| t72  | t73  | t74  | t75  | t76  | t77  | t78  | t79  |
| t80  | t81  | t82  | t83  | t84  | t85  | t86  | t87  |
| t88  | t89  | t90  | t91  | t92  | t93  | t94  | t95  |
| t96  | t97  | t98  | t99  | t100 | t101 | t102 | t103 |
| t104 | t105 | t106 | t107 | t108 | t109 | t110 | t111 |
| t112 | t113 | t114 | t115 | t116 | t117 | t118 | t119 |
| t120 | t121 | t122 | t123 | t124 | t125 | t126 | t127 |

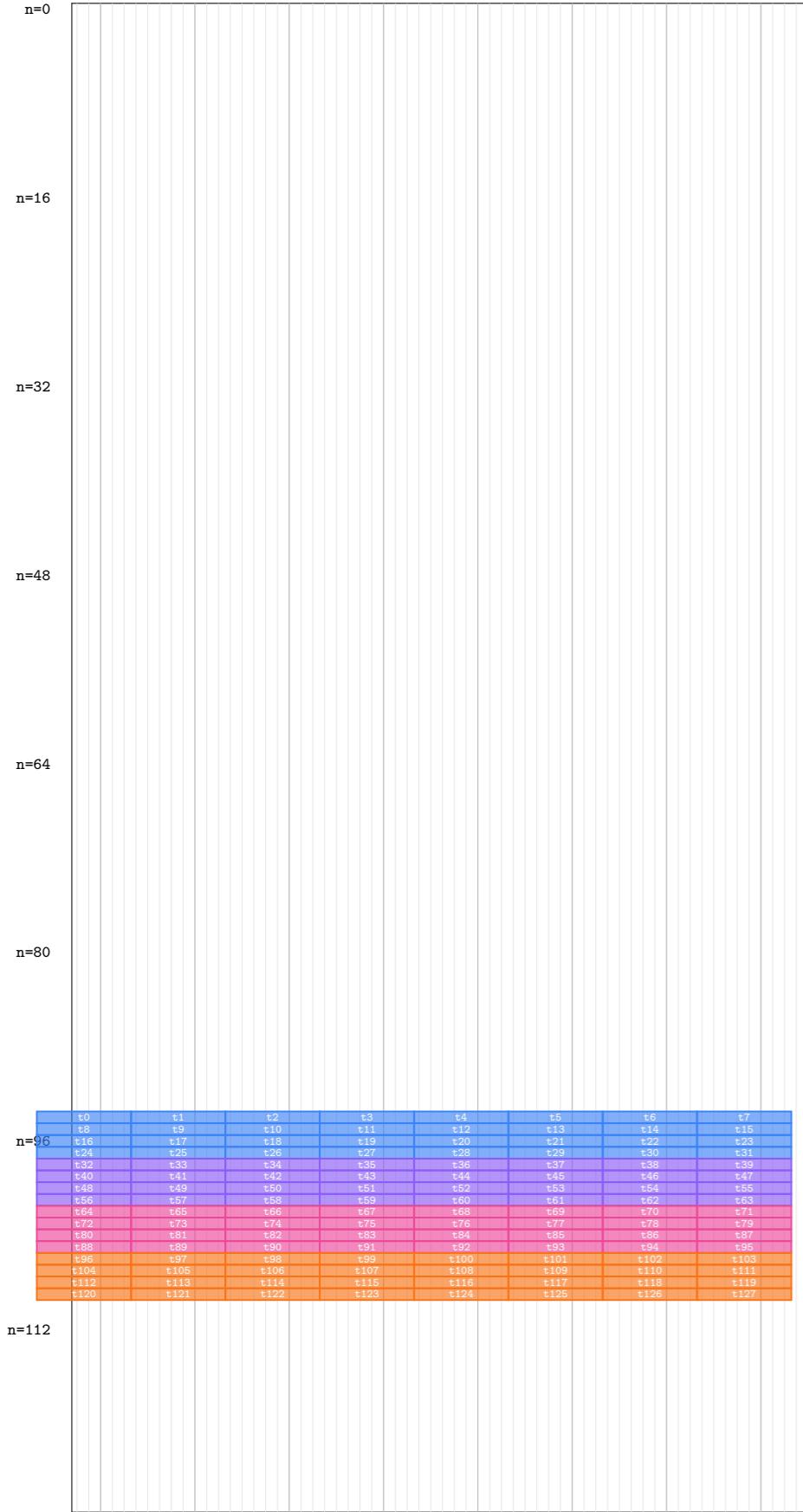
G2S B (n,k) pipe=2 k\_tile=0 step 6/7 (cm=6, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

Overlay box = one thread cp.async. Text = tid.



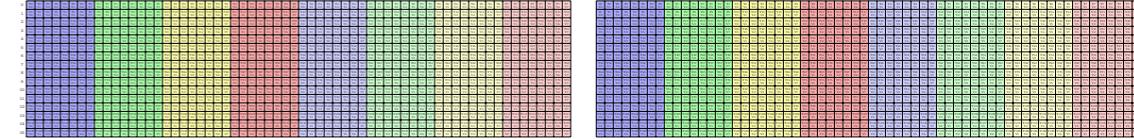
gB (n,k) CTA tile



sB (n,k) bank-colored



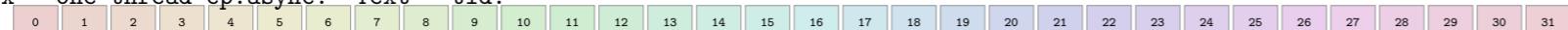
CUTE:



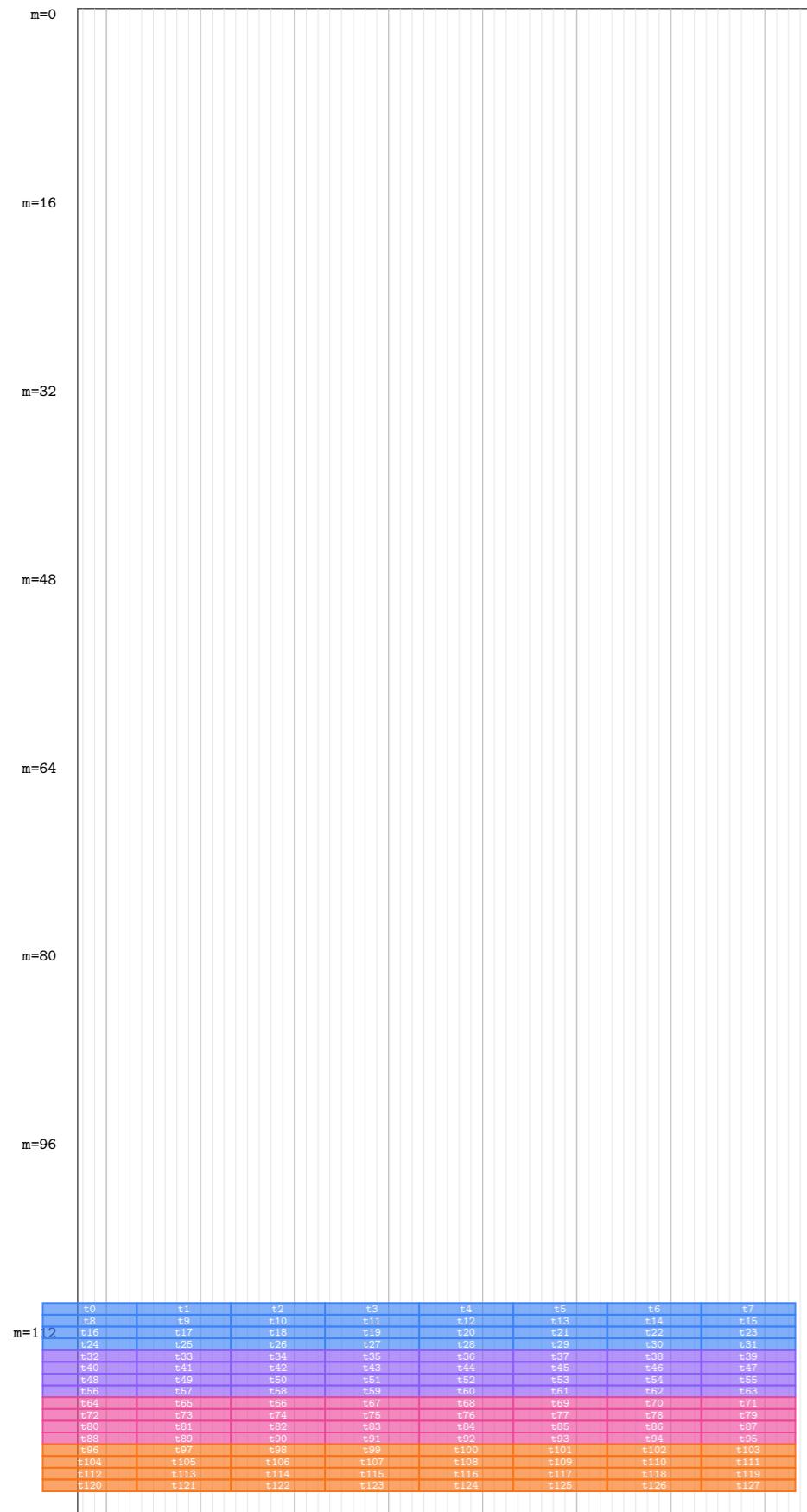
G2S A (m,k) pipe=2 k\_tile=0 step 7/7 (cm=7, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

W0 W1 W2 W3

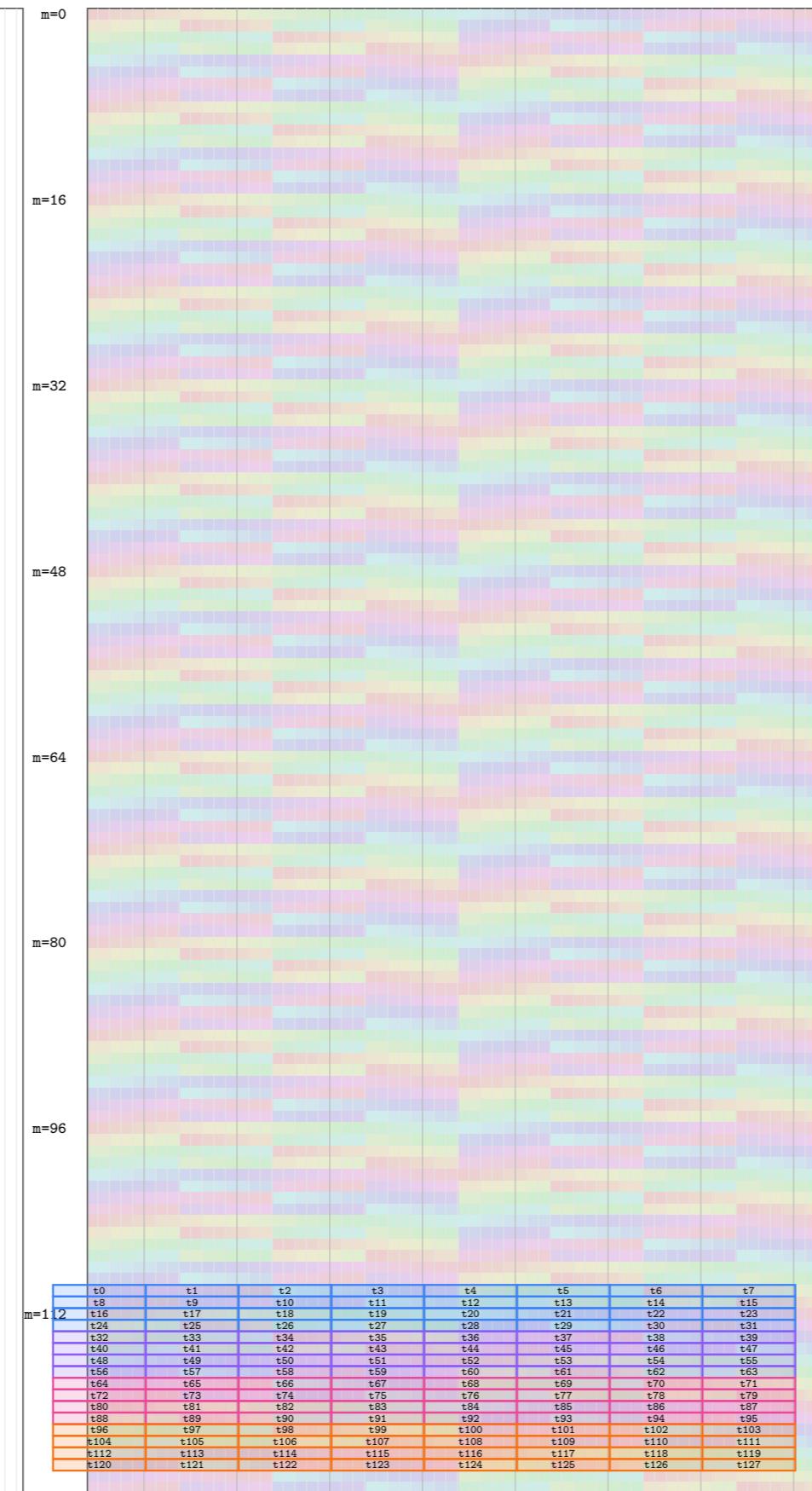
Overlay box = one thread cp.async. Text = tid.



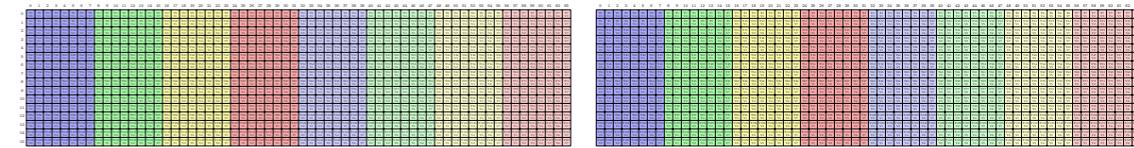
gA (m,k) CTA tile



sA (m,k) bank-colored



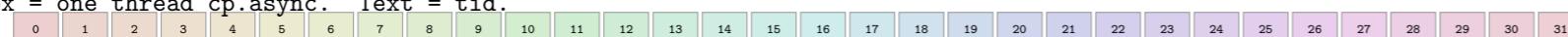
CUTE:



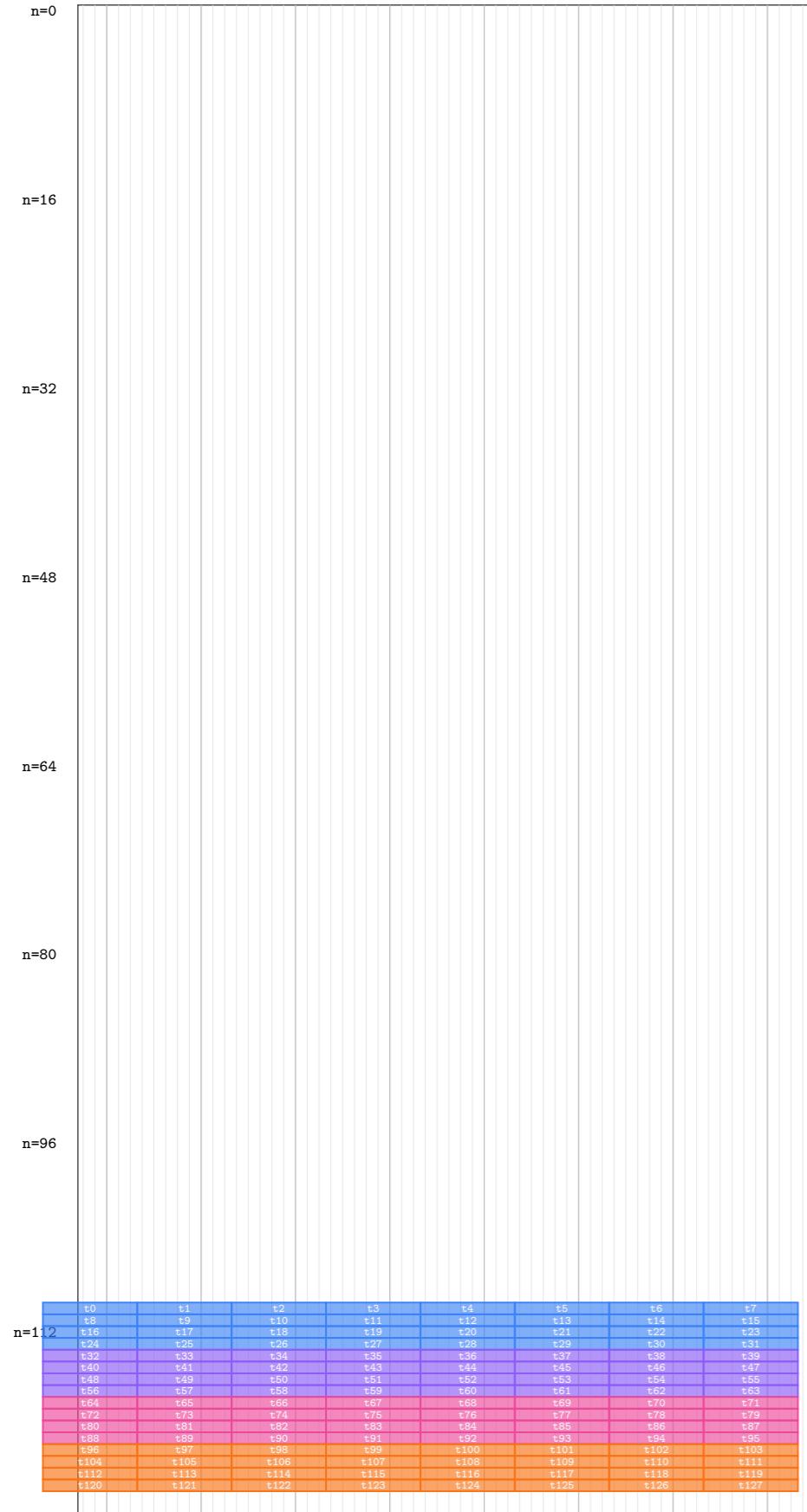
G2S B (n,k) pipe=2 k\_tile=0 step 7/7 (cm=7, ck=0) (cpy\_m=8, cpy\_k=1) (V=8 half = 16B)

Overlay box = one thread cp.async. Text = tid.

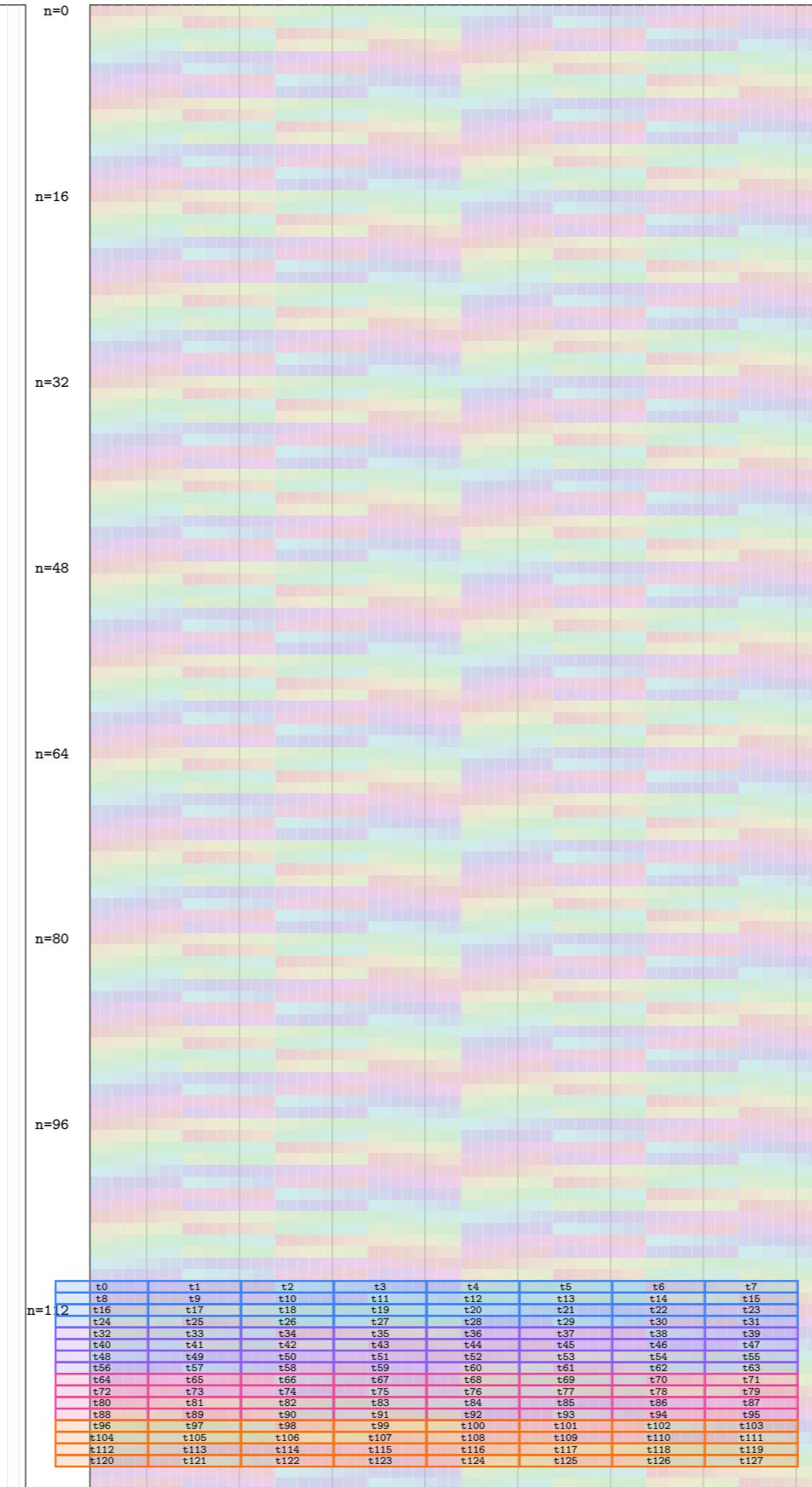
W0 W1 W2 W3



gB (n,k) CTA tile



sB (n,k) bank-colored



CUTE:

