Row 0: #SB⁰ #MC⁰ #MC⁰_F #AL⁰_F #AR⁰_F #SB¹_F #SB¹   #KL⁰_F #KR⁰_F #K⁰_F #Kinv⁰_F   #KExp⁰_F
SB/SR · Eval · AKL · MC · AKR · SupP · MC

#MC⁰_B #AL⁰_B #AR⁰_B #SB¹_B   #KL⁰_B #KR⁰_F #K⁰_F #Kinv⁰_F   #KExp⁰_B
AKL · MC · AKR · MC

MC
(−0 ■, −3 ■)

Row 1: #SB¹ #MC¹ #MC¹_F #AL¹_F #AR¹_F #SB²_F #SB²   #KL¹_F #KR¹_F #K¹_F #Kinv¹_F   #KExp¹_F
SB/SR · Eval · AKL · MC · AKR · SupP

#MC¹_B #AL¹_B #AR¹_B #SB²_B   #KL¹_B #KR¹_F #K¹_F #Kinv¹_F   #KExp¹_B
AKL · MC · AKR · MC

MC
(−0 ■, −4 ■)

Row 2: #SB² #MC² #MC²_F #AL²_F #AR²_F #SB³_F #SB³   #KL²_F #KR²_F #K²_F #Kinv²_F   #KExp²_F
SB/SR · Eval · AKL · MC · AKR · SupP

#MC²_B #AL²_B #AR²_B #SB³_B   #KL²_B #KR²_F #K²_F #Kinv²_F   #KExp²_B
AKL · MC · AKR · MC

Add KR
(−0 ■, −9 ■)

KeyExp
(−0 ■, −1 ■)

Row 3: #SB³ #MC³ #MC³_F #AL³_F #AR³_F #SB⁴_F #SB⁴   #KL³_F #KR³_F #K³_F #Kinv³_F   #KExp³_F
SB/SR · SupP · AKL · MC · AKR · Eval

⟷S^ENC
(+3 ■, +13 ■)

#MC³_B #AL³_B #AR³_B #SB⁴_B   #KL³_B #KR³_F #K³_F #Kinv³_F   #KExp³_B
AKL · MC · AKR · MC

⟷S^KSA
(+4 ■, +19 ■)

MC   Add KR
(−1 ■, −0 ■) (−3 ■, −0 ■)

Row 4: #SB⁴ #MC⁴ #MC⁴_F #AL⁴_F #AR⁴_F #SB⁵_F #SB⁵   #KL⁴_F #KR⁴_F #K⁴_F #Kinv⁴_F   #KExp⁴_F
SB/SR · SupP · AKL · MC · AKR · Eval

#MC⁴_B #AL⁴_B #AR⁴_B #SB⁵_B   #KL⁴_B #KR⁴_F #K⁴_F #Kinv⁴_F   #KExp⁴_B
AKL · MC · AKR · MC

MC
(−0 ■, −1 ■)

KeyExp
(−0 ■, −2 ■)

Row 5: #SB⁵ #MC⁵ #MC⁵_F #AL⁵_F #AR⁵_F #SB⁶_F #SB⁶   #KL⁵_F #KR⁵_F #K⁵_F #Kinv⁵_F   #KExp⁵_F
SB/SR · SupP · AKL · MC · AKR · Eval

#MC⁵_B #AL⁵_B #AR⁵_B #SB⁶_B   #KL⁵_B #KR⁵_F #K⁵_F #Kinv⁵_F   #KExp⁵_B
AKL · MC · AKR · MC

Add KR
(−0 ■, −6 ■)

Row 6: #SB⁶ #MC⁶ #MC⁶_F #AL⁶_F #AR⁶_F #SB⁷_F #SB⁷   #KL⁶_F #KR⁶_F #K⁶_F #Kinv⁶_F
SB/SR · SupP · AKL · ⟷M · AKR · SupP

#MC⁶_B #AL⁶_B #AR⁶_B #SB⁷_B   #KL⁶_B #KR⁶_F #K⁶_F #Kinv⁶_F
AKL · →End · AKR · ←End · MC

Row 7: #SB⁷ #MC⁷ #MC⁷_F #AT_F #SB⁷_F #SB⁰   #K⁷_F #K⁷_F
SB/SR · SupP · AK · AK · SupP

#MC⁷_F #AT_B #SB⁷_B   #K⁷_F #K⁷_F
AK · AK

AK
(−0 ■, −3 ■)

time cost = 4 sec

Config

- $(\overrightarrow{\iota}, \overleftarrow{\iota}) = (+7\ \blacksquare, +32\ \blacksquare)$ $\overleftrightarrow{S}^{\text{ENC}} = (+3\ \blacksquare, +13\ \blacksquare)$ $\overleftrightarrow{S}^{\text{KSA}} = (+4\ \blacksquare, +19\ \blacksquare)$
- $(\overrightarrow{d_b}, \overleftarrow{d_r}, \overrightarrow{m}, \overrightarrow{d_{g_b}}, \overleftarrow{d_{g_r}}, \overleftrightarrow{d_{g_{br}}}) = (+3\ \blacksquare, +3\ \blacksquare, +3\ \blacksquare, -0\ \blacksquare, -0\ \blacksquare, +0\ \blacksquare))$