GF-01 APX Capsule — Press Prefilled (Ticks 1–8)

Schemes considered: ID, ΔR (Δ + zero-RLE), GR(p) for p∈{0..4}. MDL = L_total (bits).

Computed manifest_check: 487809945

S1_post_u_deltas: len=48 chosen=ΔR L_total=7 — Per-tick net change per node (t=1..8, nodes asc)

S2_fluxes: len=64 chosen=ΔR L_total=8 — Per-tick edge flux f_e (t=1..8, edges in ID order)

A5 — APX Manifest (Prefilled)

APX name

GF01_APX_v0_full_window

profile

CMP-0

manifest_check

487809945

stream_id	description	scheme	params	L_model	L_residual	L_total
S1_post_u_deltas	Per-tick net change of B_v	ΔB per node (t=1..8, nodes asc)		0	0	7
S2_fluxes	Per-tick edge flux f_e	ΔB (t=1..8, edges in ID order)		0	0	8

A6 — APX SimA Model (Prefilled) — S1_post_u_deltas

Chosen scheme: ΔR; L_total=7 bits

candidate	param	L_total(bits)
ID		48
GR	p=0	48
GR	p=1	96
GR	p=2	144
GR	p=3	192
GR	p=4	240
ΔR		7

ID: per value bits = 1(sign) + ⌈log2(|z|+1)⌉ for magnitude; z=0 uses 1 bit total.

GR(p): zigzag y; bits = (⌊y/2^p⌋+1) + p.

ΔR: encode deltas with zero-run marker 0 + ⌈log2(L+1)⌉, non-zero as marker 1 + GR(p=0).

Totals exclude fixed headers in V0 (L_model=L_residual=0).

A6 — APX SimA Model (Prefilled) — S2_fluxes

Chosen scheme: ΔR; L_total=8 bits

candidate	param	L_total(bits)
ID		64
GR	p=0	64
GR	p=1	128
GR	p=2	192
GR	p=3	256
GR	p=4	320
ΔR		8

ID: per value bits = 1(sign) + ⌈log2(|z|+1)⌉ for magnitude; z=0 uses 1 bit total.

GR(p): zigzag y; bits = (⌊y/2^p⌋+1) + p.

ΔR: encode deltas with zero-run marker 0 + ⌈log2(L+1)⌉, non-zero as marker 1 + GR(p=0).

Totals exclude fixed headers in V0 (L_model=L_residual=0).

A7 — APX Residuals (Prefilled)

Exact schemes selected; residuals not required (L_residual=0).

stream_id	residual_entries
S1_post_u_deltas	(none)
S2_fluxes	(none)

A8 — MDL Tally (Prefilled)

stream_id	candidate	param	L_total(bits)	chosen?
S1_post_u_deltas	ID		48	
S1_post_u_deltas	GR	p=0	48	
S1_post_u_deltas	GR	p=1	96	
S1_post_u_deltas	GR	p=2	144	
S1_post_u_deltas	GR	p=3	192	
S1_post_u_deltas	GR	p=4	240	
S1_post_u_deltas	ΔR		7	✓
S2_fluxes	ID		64	
S2_fluxes	GR	p=0	64	
S2_fluxes	GR	p=1	128	
S2_fluxes	GR	p=2	192	
S2_fluxes	GR	p=3	256	
S2_fluxes	GR	p=4	320	
S2_fluxes	ΔR		8	✓