

AVANTIX

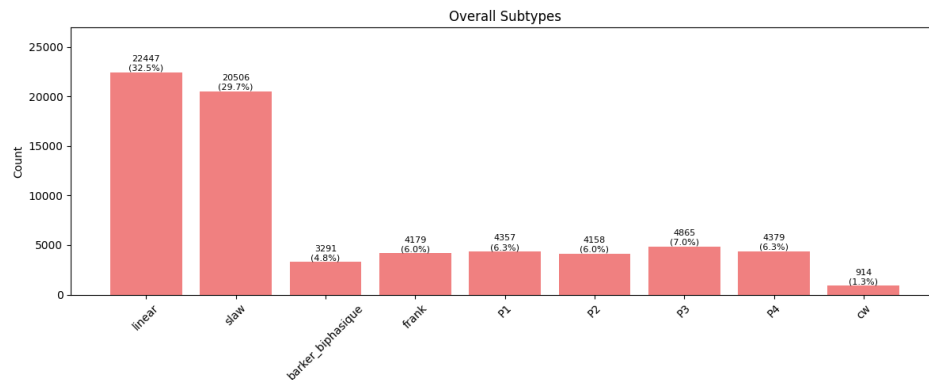
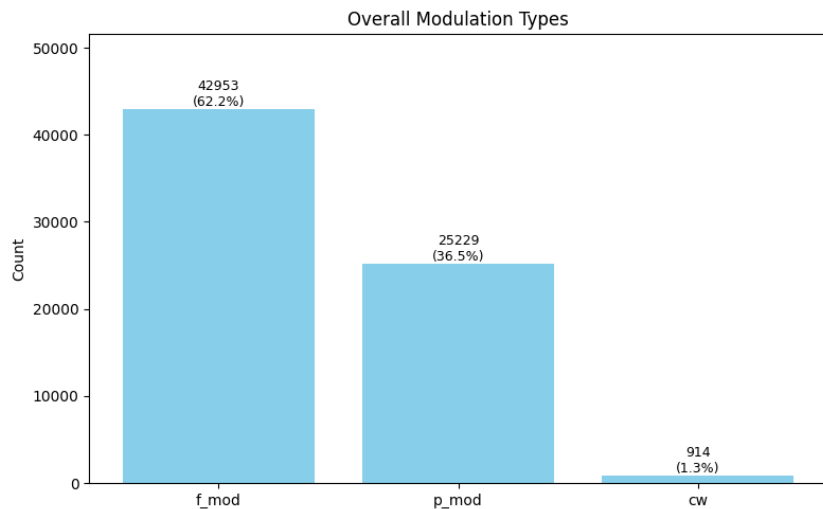
Avancement Simulateur IQ

AVANTIX

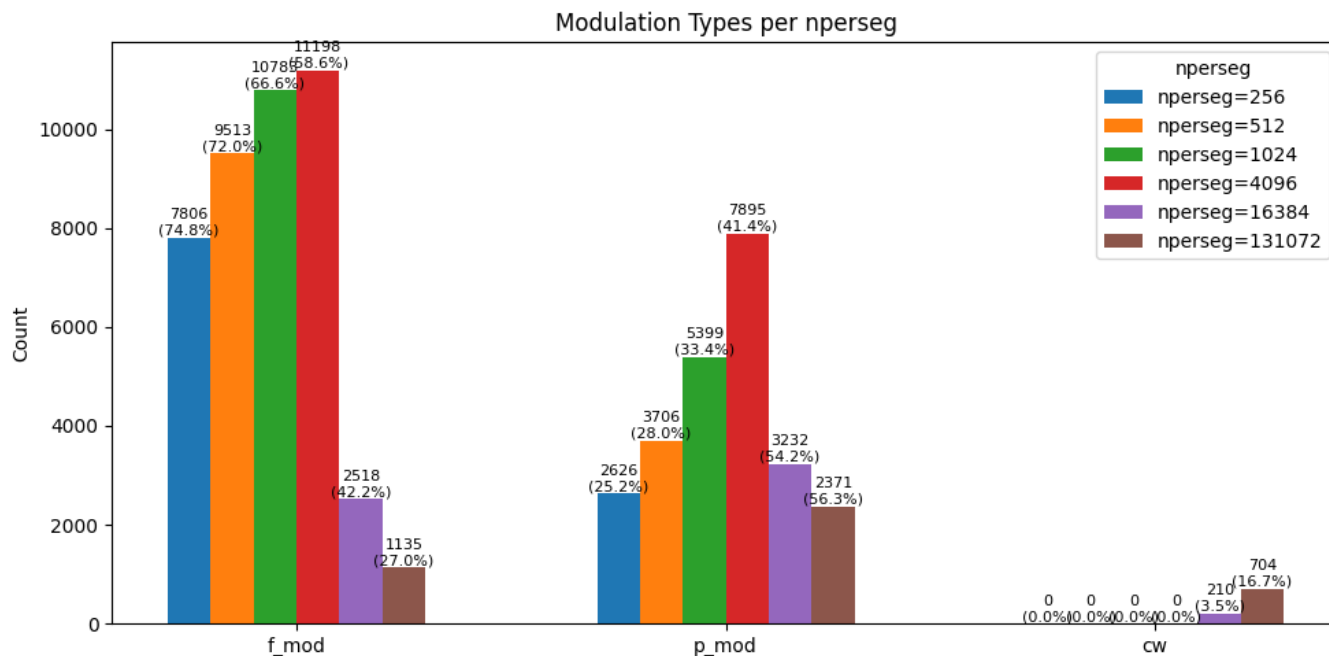
Par branche

EDA BT702

- Création nouvelle bt avec threshold = 3dB
- Ajout des PMODS

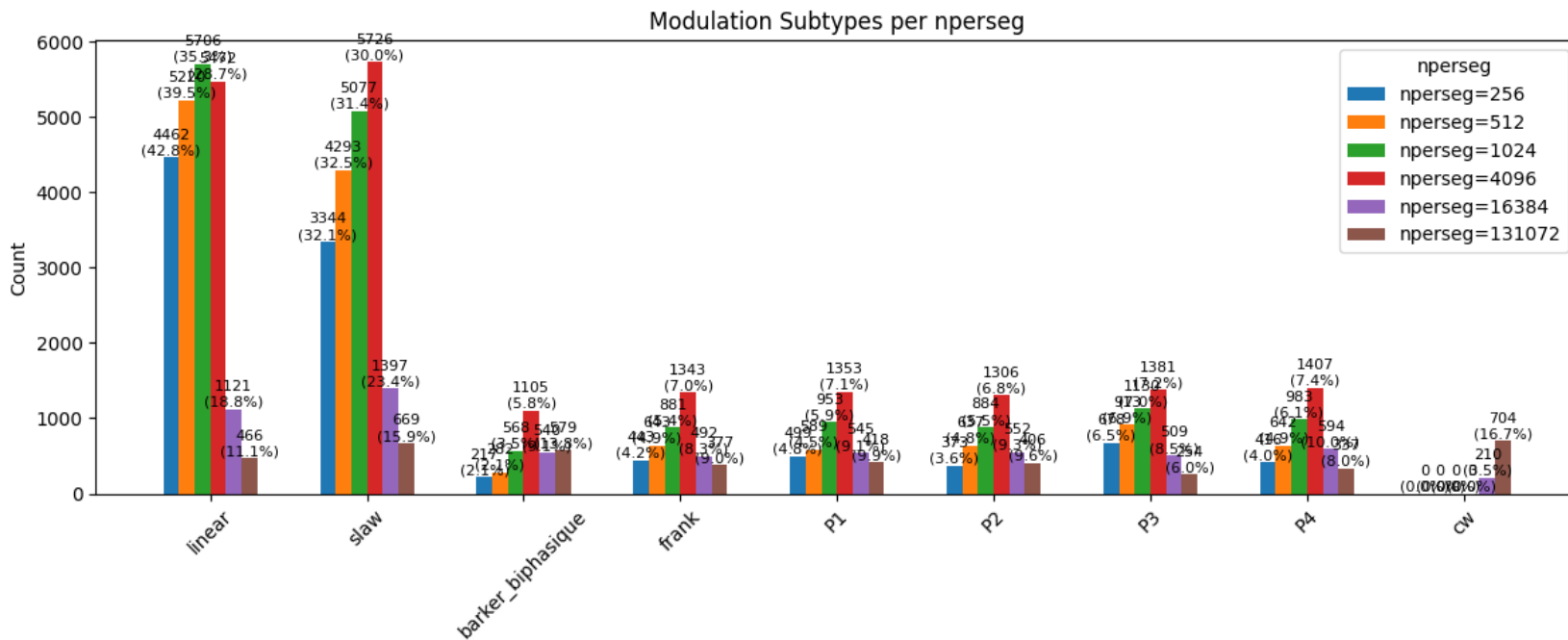


EDA BT702

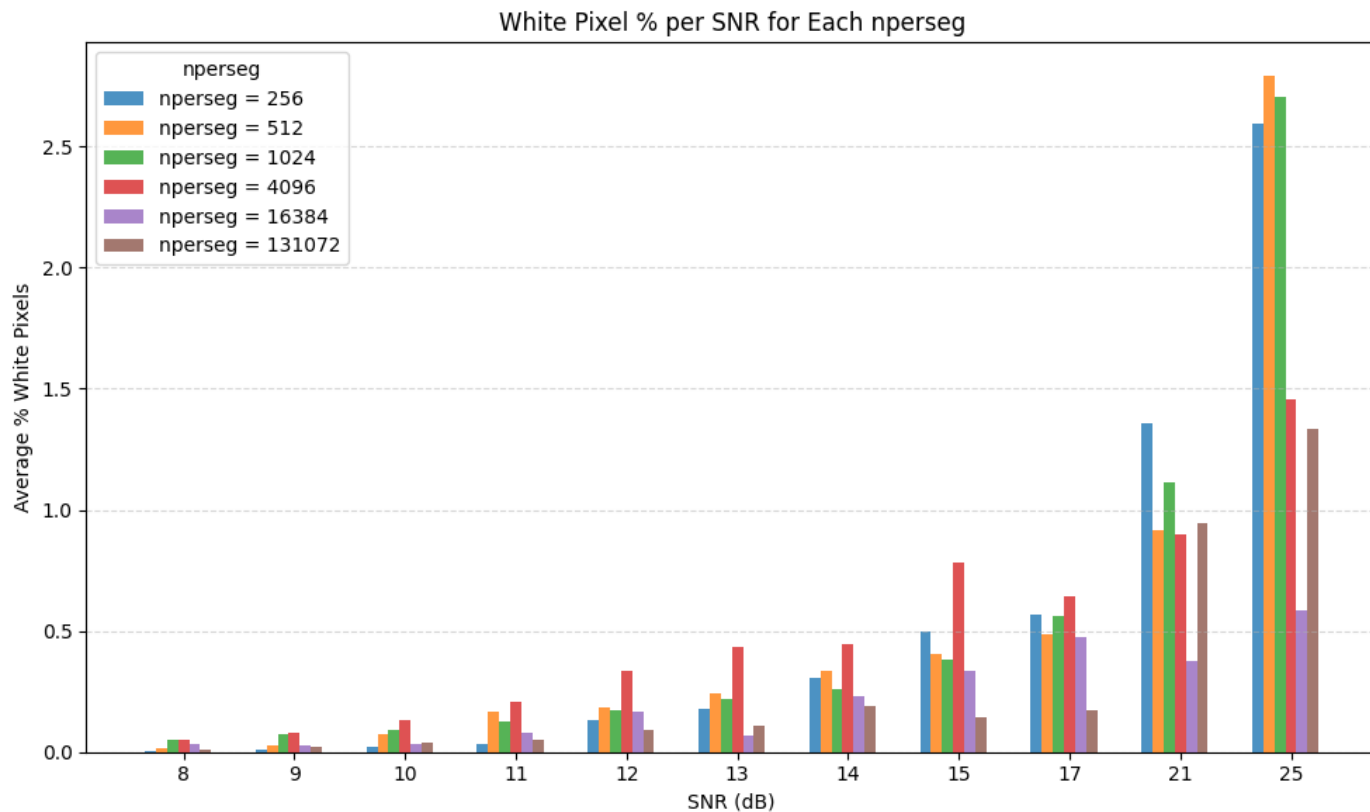


CW présent uniquement dans 16384 & 131072

EDA BT702



EDA BT702



Budget GFLOPs

GFLOPs=0.94

GFLOPs=1.13

GFLOPs=5.74

GFLOPs=5.44

GFLOPs=5.74

GFLOPs=0.89

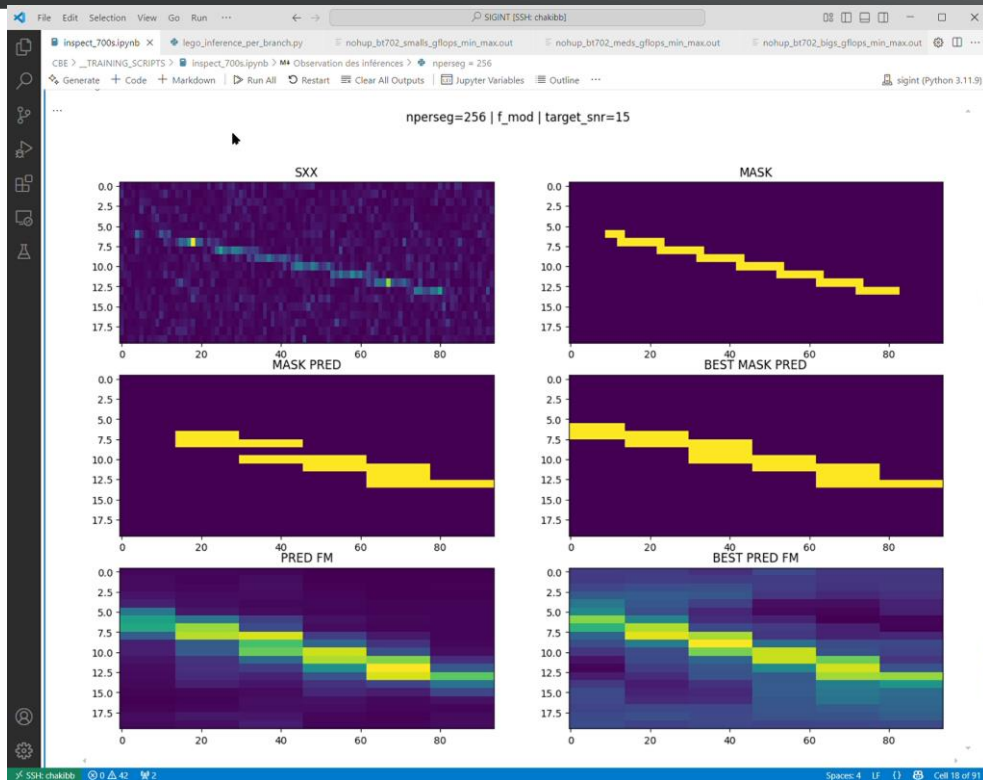
@ 4,19ms sur bt603 → 19 GFLOPs → Budget pour l'IA

Budget GFLOPs

nperseg	Down time	Down freq	Down time x Down Freq	GFLOPs max
256	16	1	16	1
512	8	1	8	2
1024	4	1	4	4,5
4096	2	1	2	9
16384	2	4	8	2
131072	2	8	16	1

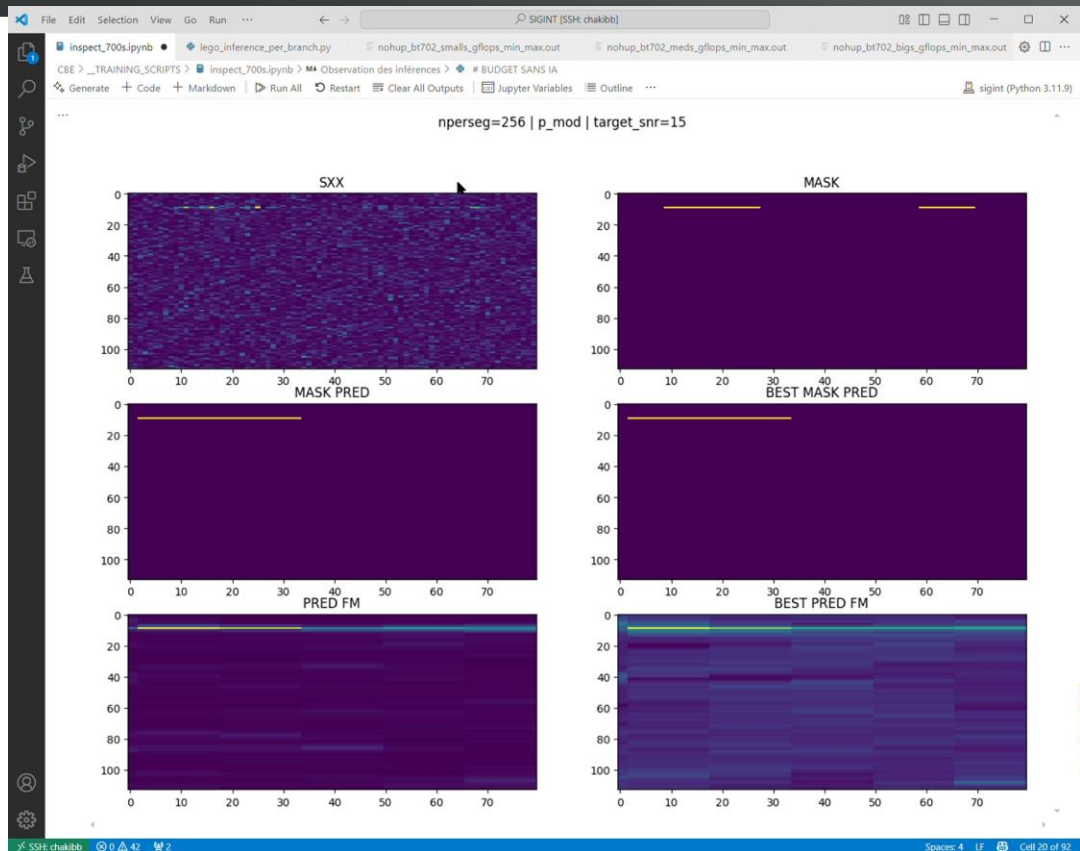
BT702 - 256 @ 15dB

Regular model = 97,5 PR-AUC @ 1,02 GFLOPs (1 GFLOPs MAX)
Best model = 99 PR-AUC @ 3,7 GFLOPs



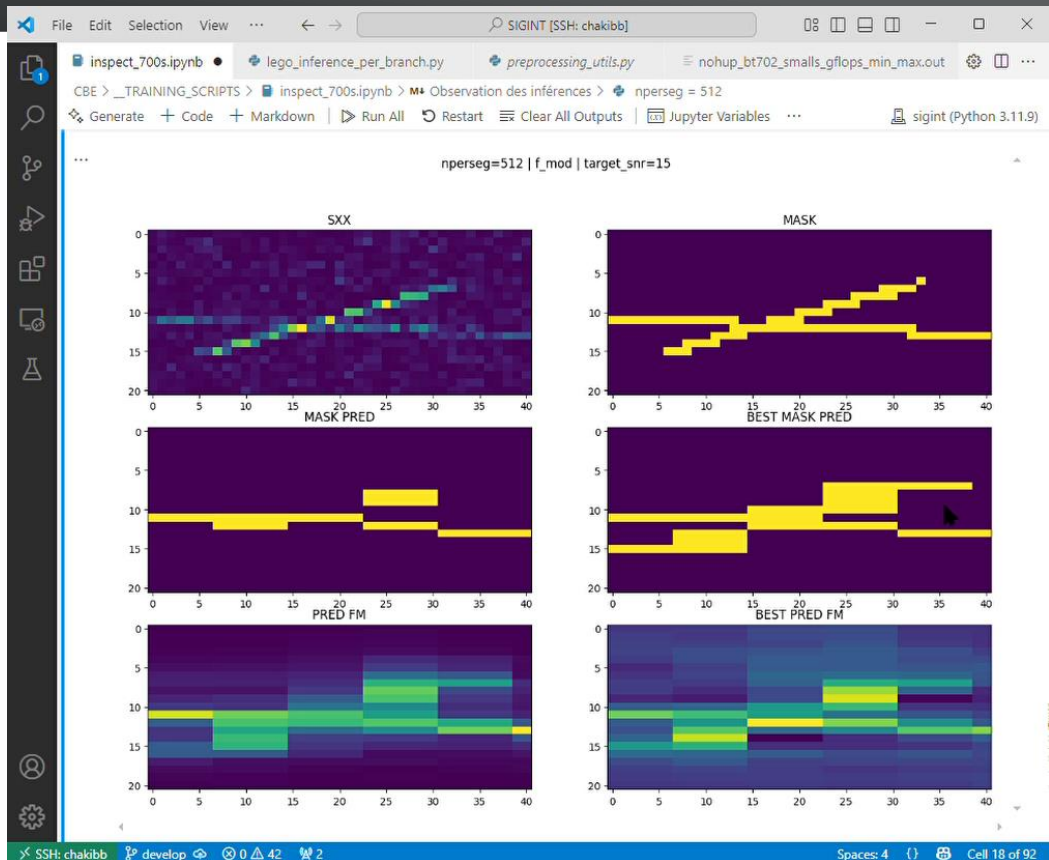
LEGO – 256 @ 15dB

Regular model = 97,5 PR-AUC @ 1,02 GFLOPs (1 GFLOPs MAX)
Best model = 99 PR-AUC @ 3,7 GFLOPs



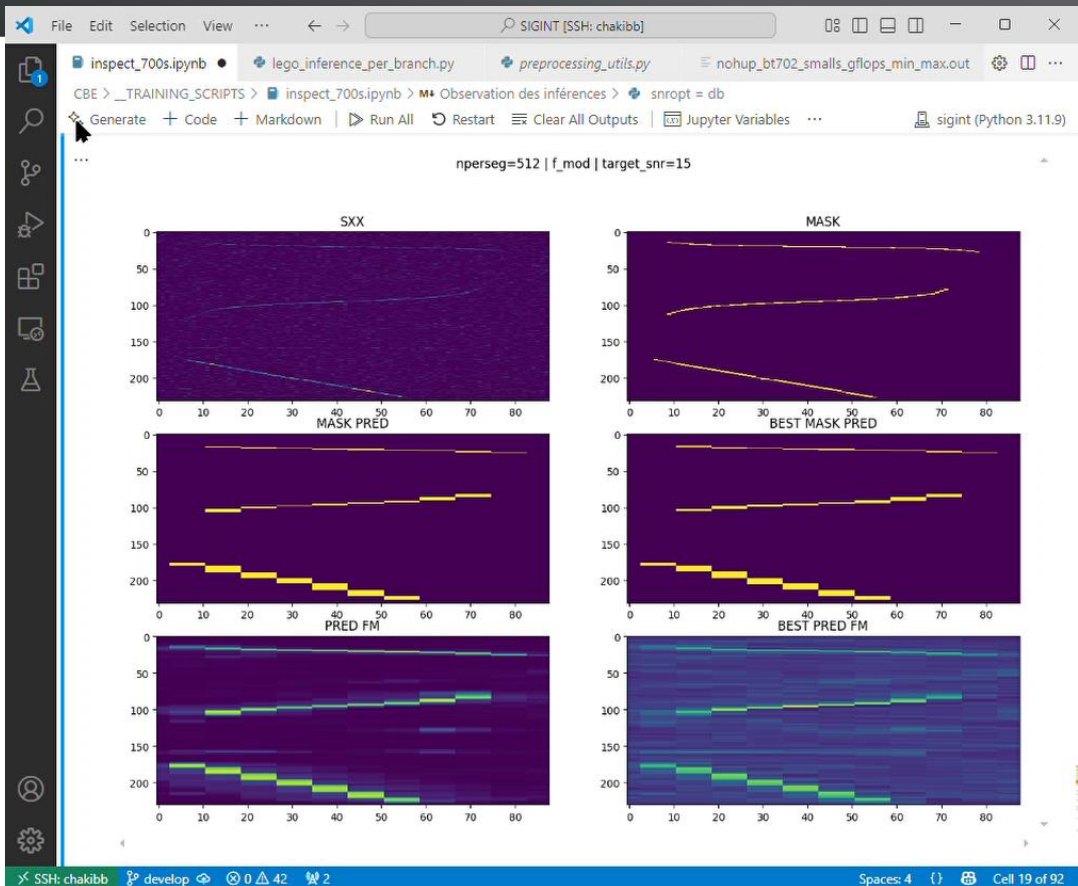
BT702 - 512 @ 15dB

Regular model = 96,5 PR-AUC @ 2,04 GFLOPs (2 GFLOPs MAX)
Best model = 97,1 PR-AUC @ 3,77 GFLOPs



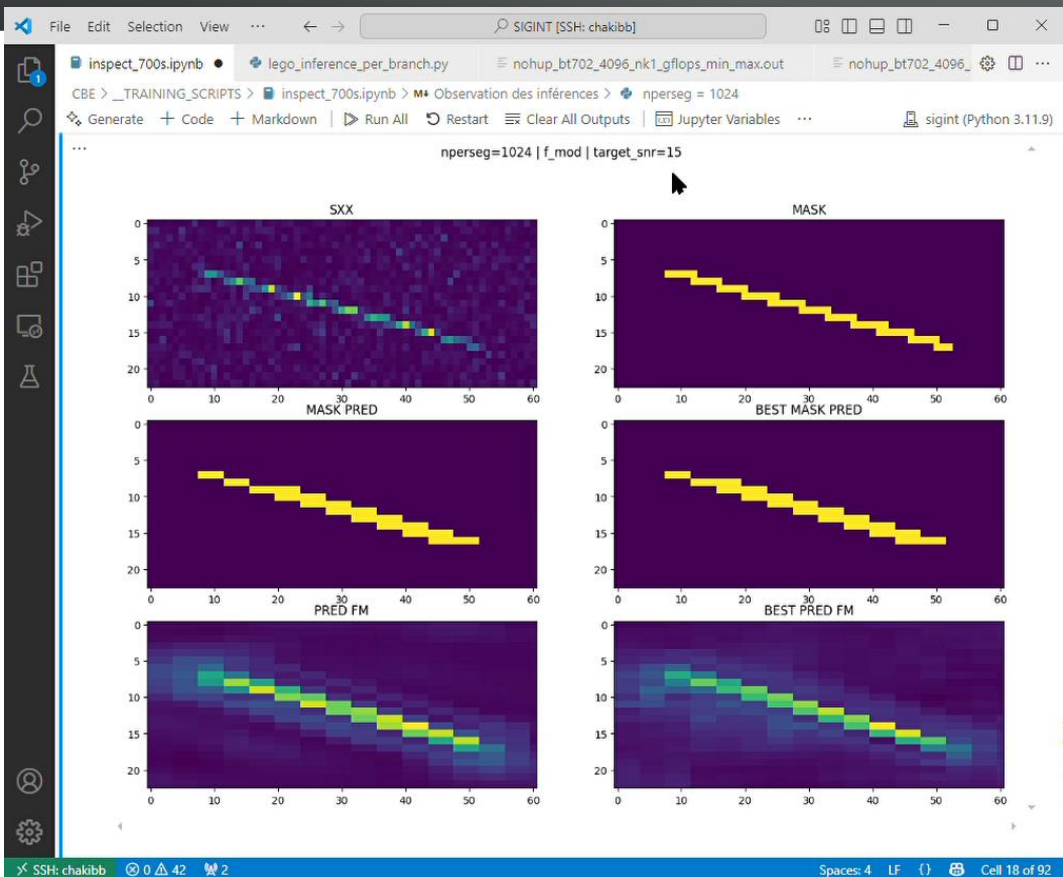
LEGO – 512 @ 15dB

Regular model = 96,5 PR-AUC @ 2,04 GFLOPs (2 GFLOPs MAX)
Best model = 97,1 PR-AUC @ 3,77 GFLOPs



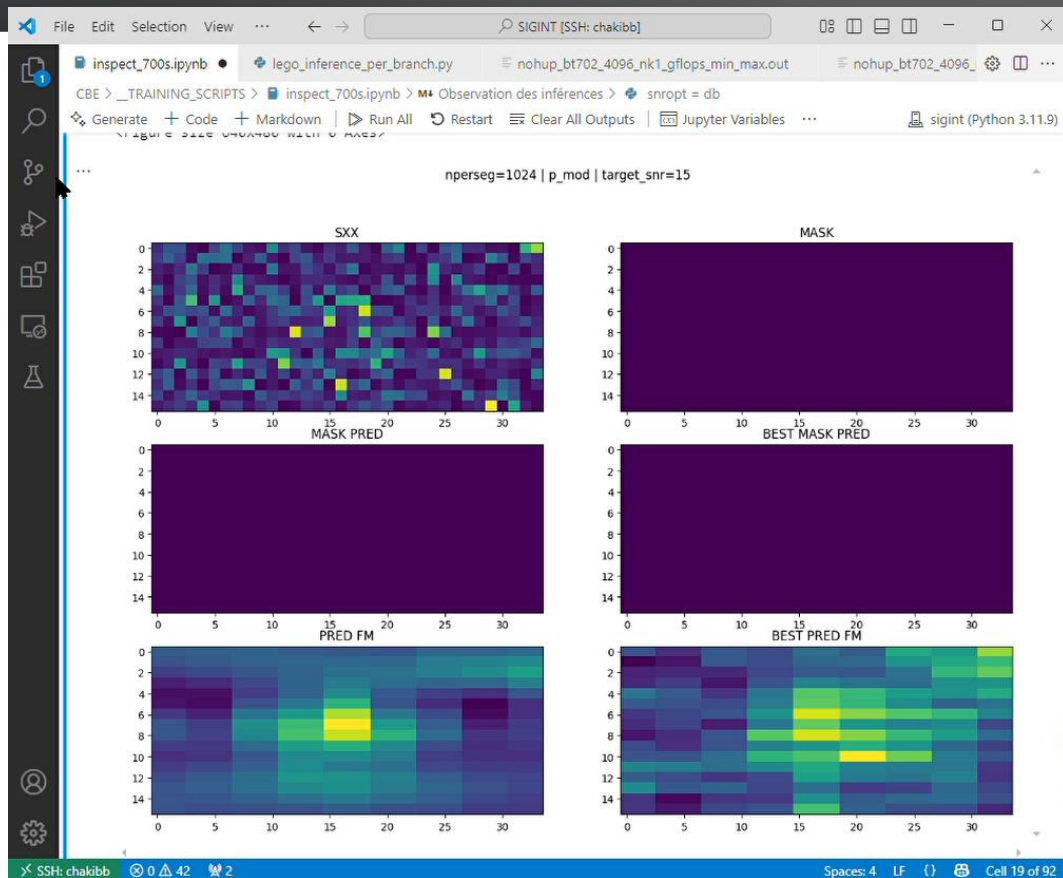
BT702 – 1024 @ 15dB

Regular model = 96,8 PR-AUC @ 2,26 GFLOPs (4,5 GFLOPs MAX)
Best model = 97,4 PR-AUC @ 4,53 GFLOPs



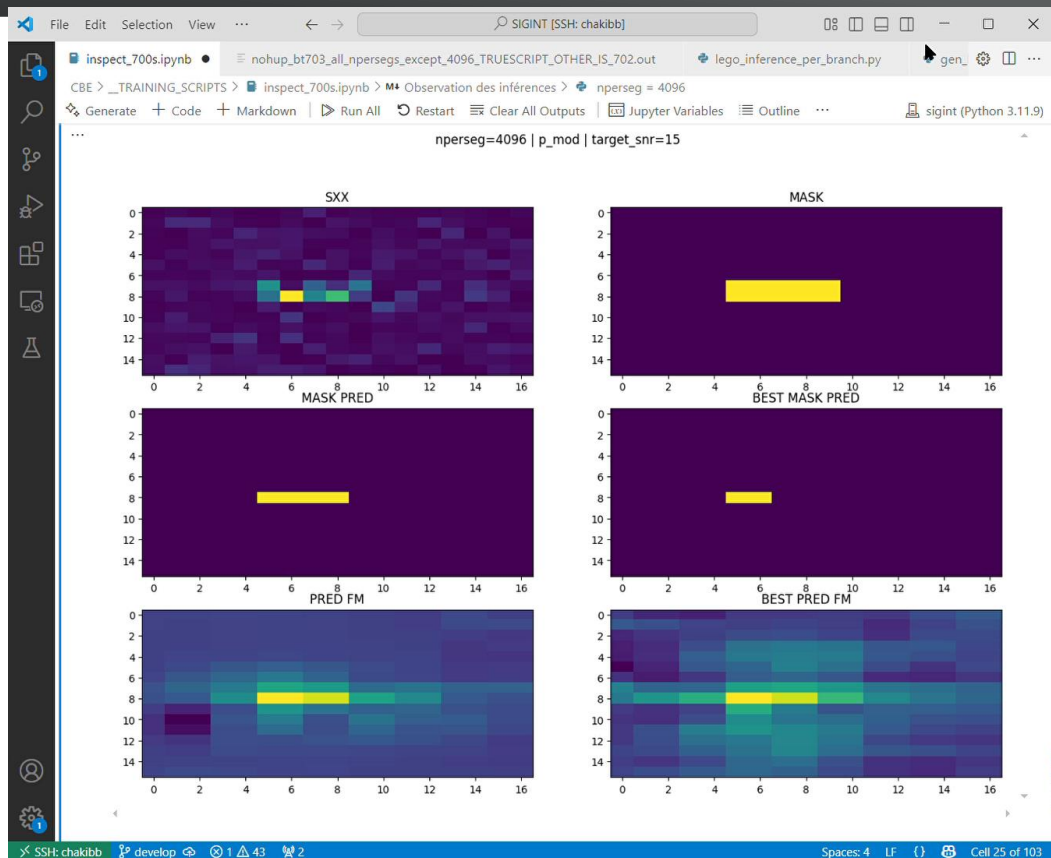
LEGO – 1024 @ 15dB

Regular model = 96,8 PR-AUC @ 2,26 GFLOPs (4,5 GFLOPs MAX)
Best model = 97,4 PR-AUC @ 4,53 GFLOPs



BT702 - 4096 @ 15dB

Regular model = 94,4 PR-AUC @ 3,02 GFLOPs (9 GFLOPs MAX)
Best model = 95,3 PR-AUC @ 10,87 GFLOPs

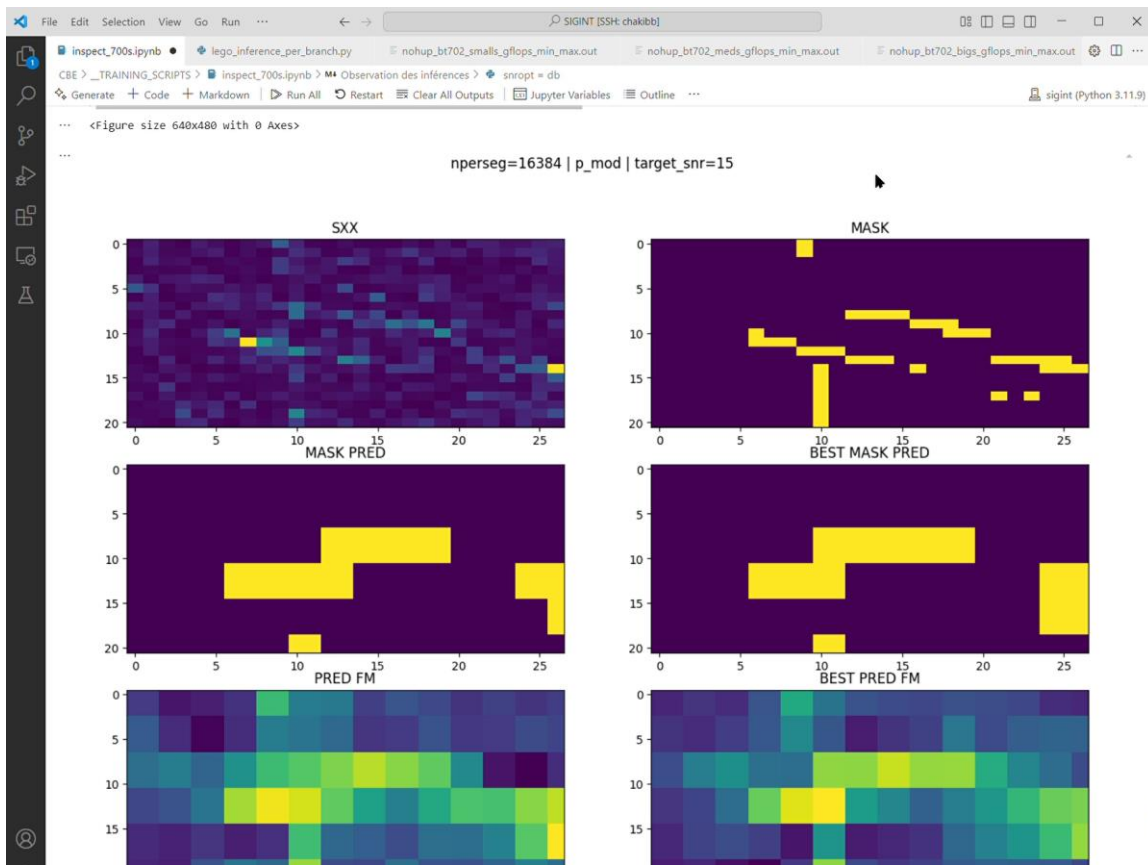


LEGO – 4096 @ 15dB

Regular model = 94,4 PR-AUC @ 3,02 GFLOPs (9 GFLOPs MAX)
Best model = 95,3 PR-AUC @ 10,87 GFLOPs

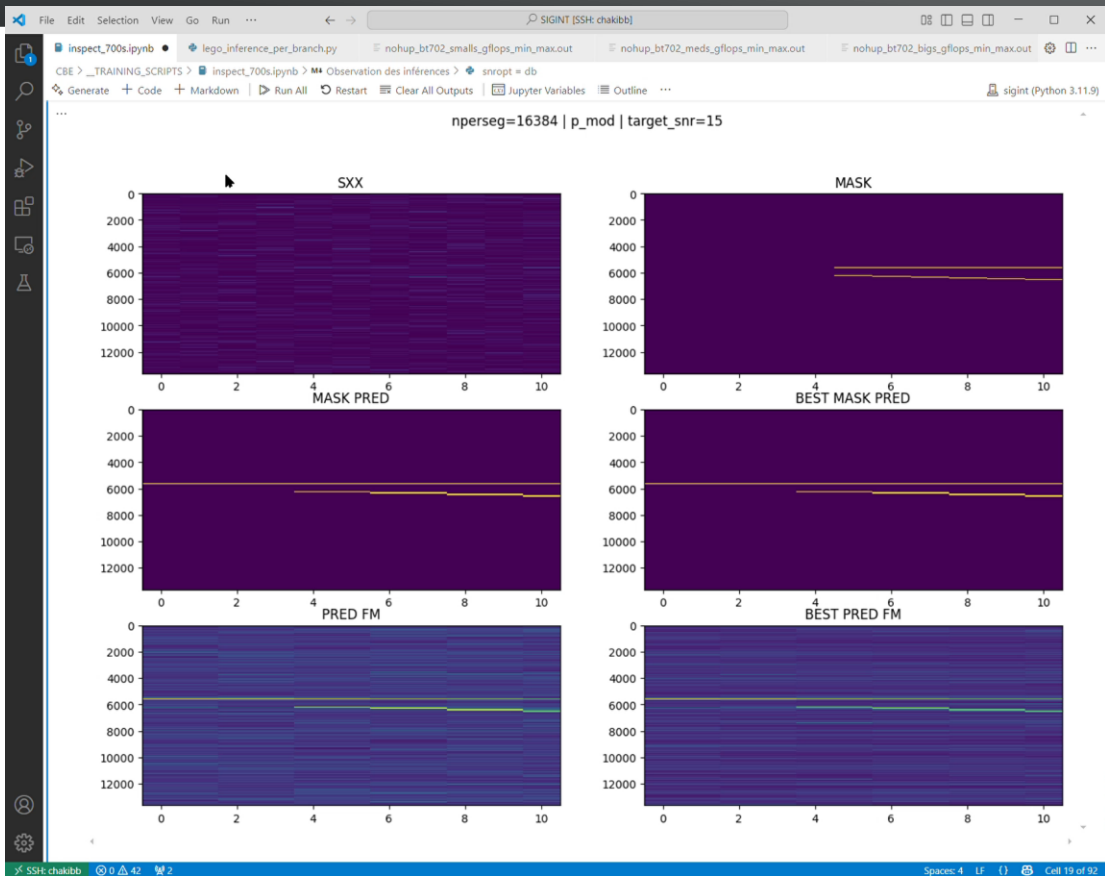
BT702 – 16384 @ 15dB

Regular model = 95,4 PR-AUC @ 1,66 GFLOPs (2 GFLOPs MAX)
Best model = 96,4 PR-AUC @ 2,26 GFLOPs



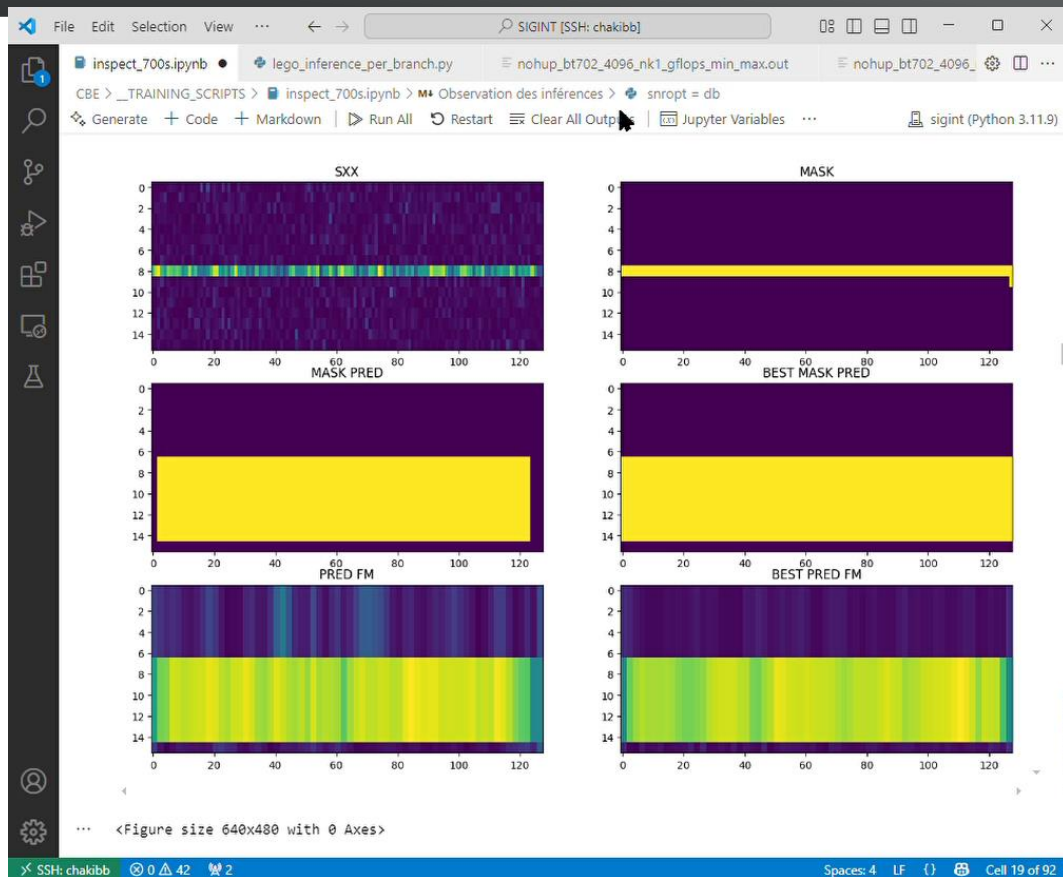
LEGO – 16384 @ 15dB

Regular model = 95,4 PR-AUC @ 1,66 GFLOPs (2 GFLOPs MAX)
Best model = 96,4 PR-AUC @ 2,26 GFLOPs



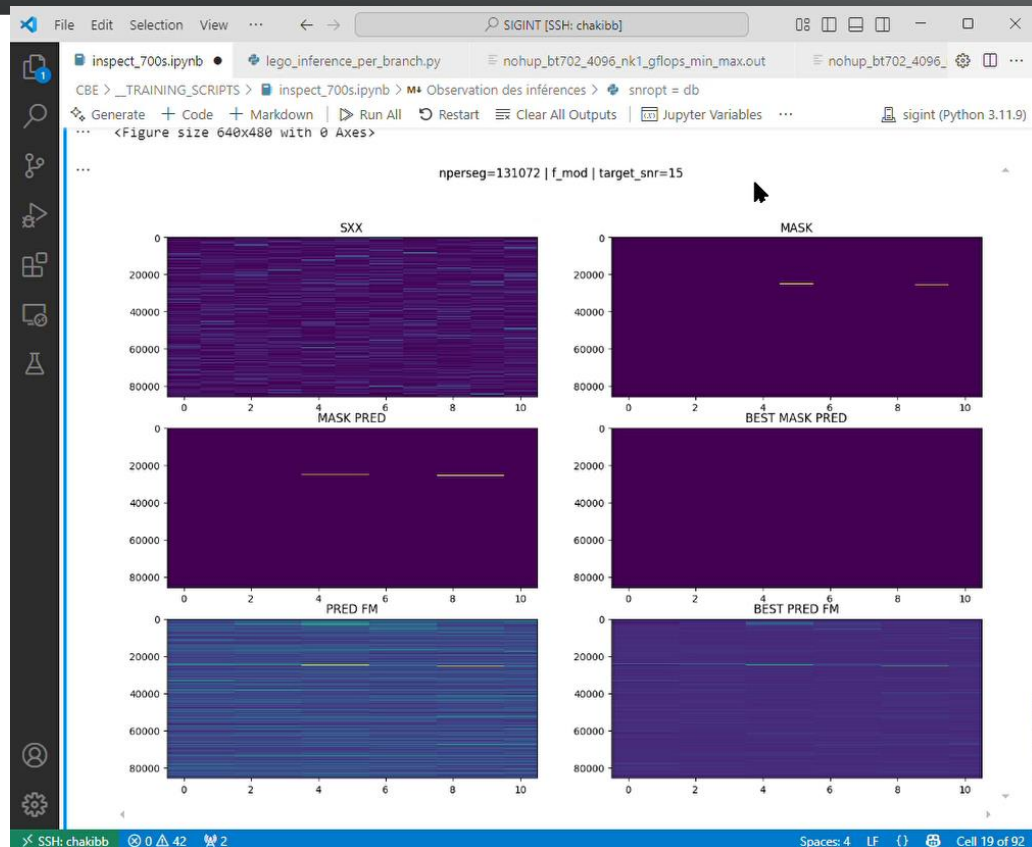
BT702 – 131072 @ 15dB

Regular model = 92,3 PR-AUC @ 0,79 GFLOPs (1 GFLOPs MAX)
Best model = 96,8 PR-AUC @ 1,89 GFLOPs



LEGO – 131072 @ 15dB

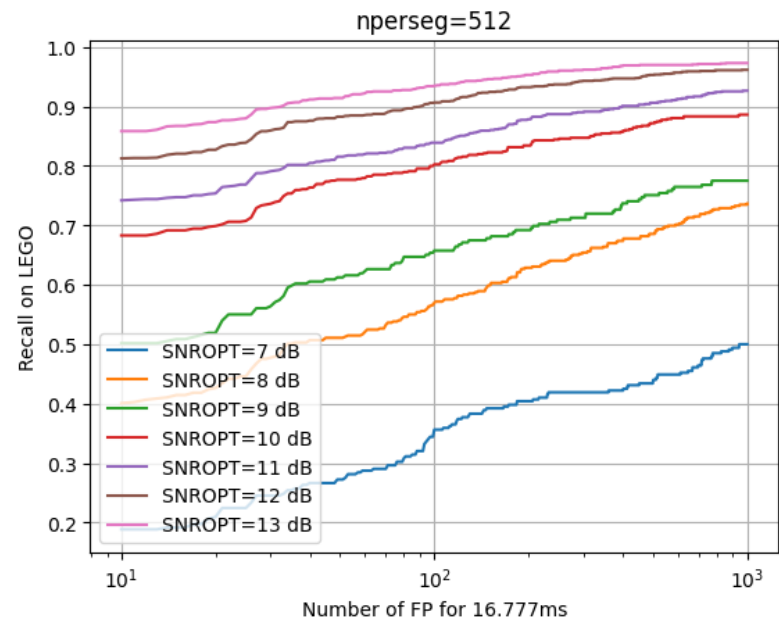
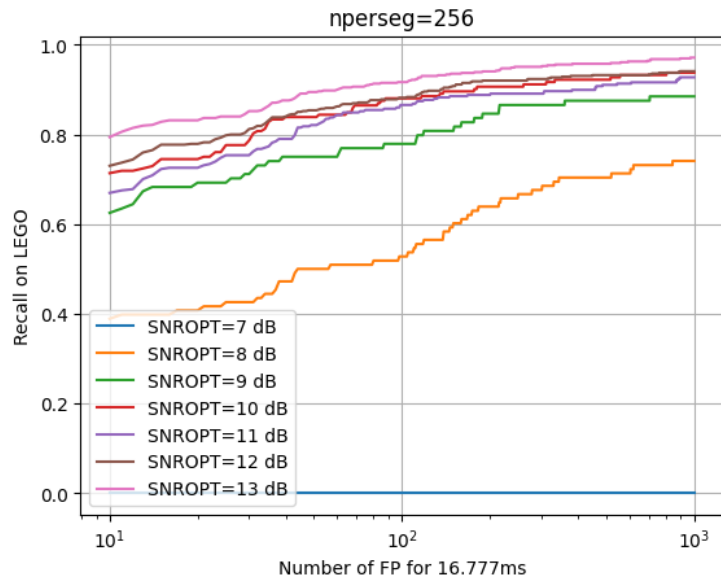
Regular model = 92,3 PR-AUC @ 0,79 GFLOPs (1 GFLOPs MAX)
Best model = 96,8 PR-AUC @ 1,89 GFLOPs



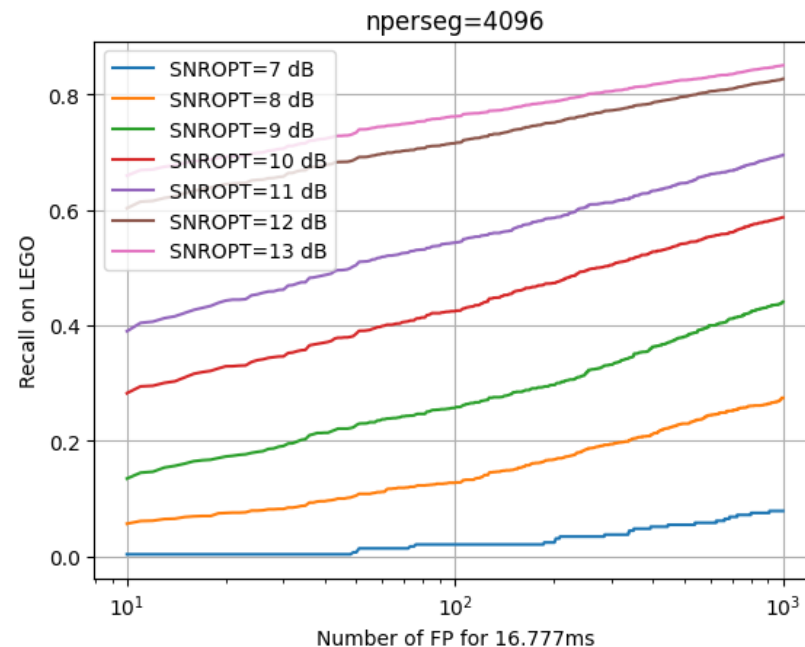
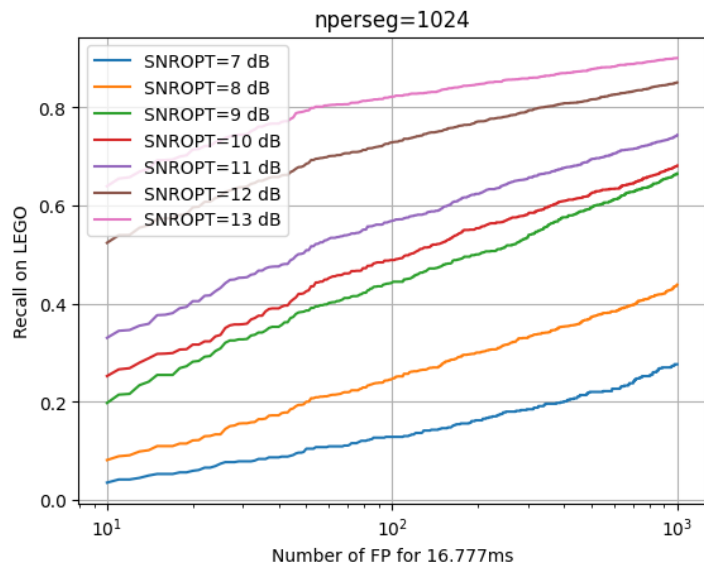
Regular vs Best

Nperseg (GFLOPs max autorisé)	Reg (GFLOPs)	Best (GFLOPs)	Selected (GFLOPs)
256 (1)	+ (1,02)	++ (3,7)	Reg (1,02)
512 (2)	+ (2,03)	++ (3,77)	Reg (2,03)
1024 (4,5)	+ (2,26)	++ (4,5)	Reg (2,26)
4096 (9)	++(3,02)	++(10,87)	Reg (3,02)
16384 (2)	+ (1,66)	++ (2,26)	Best (2,26)
131072 (1)	++ (0,79)	+ (1,89)	Reg (0,79)
TOTAL GFLOPs	10,78	26,99	11,38

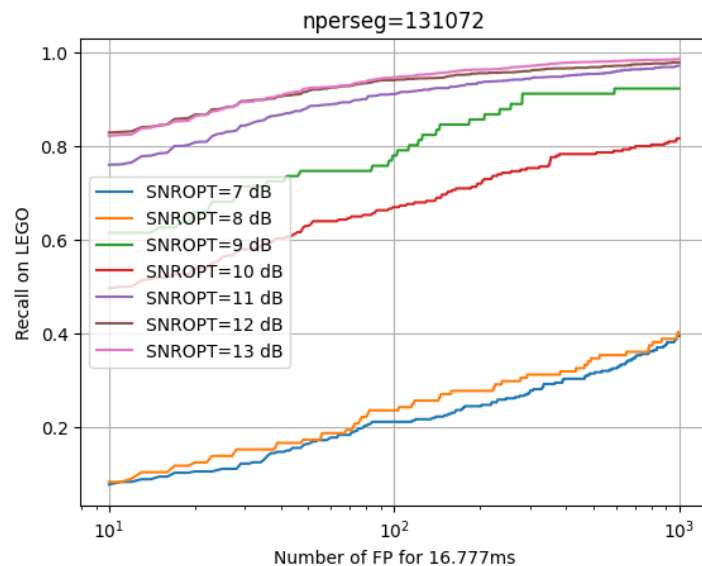
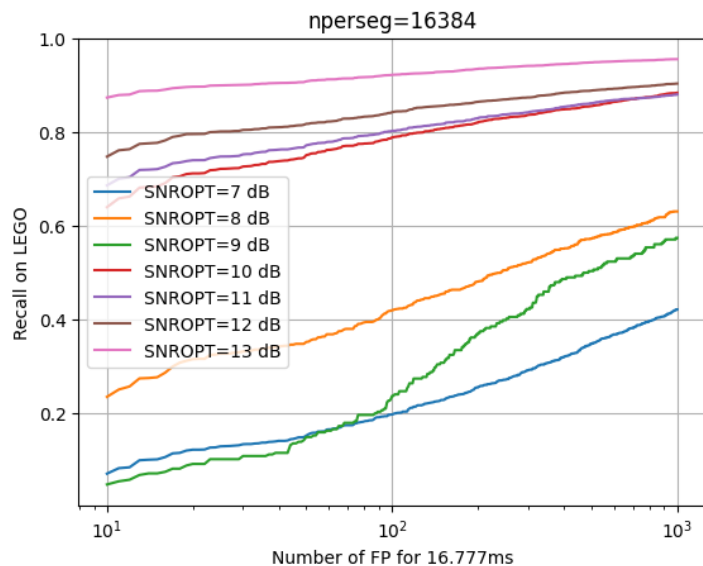
BT702 – Modèles du 14/04 sur LEGO



BT702 – Modèles du 14/04 sur LEGO



BT702 – Modèles du 14/04 sur LEGO



AVANTIX

MERCI