

Motivation: Variety in Memory Hierarchies

Platform	Memory Kind							
	Constant	Texture	SPM	DDR	eDRAM	GDDR	HBM	NVRAM
Intel® Xeon® Processor	-	-	-	✓	-	-	-	-
Intel® Xeon Phi™ Coprocessor	-	-	-	-	-	✓	-	-
Intel® Xeon Phi™ Processor	-	-	-	✓	-	-	✓	-
Future System w/ 3D XPoint™ Technology	-	-	-	✓	-	-	-	✓
Intel® HD Graphics	-	-	✓	✓	✓	-	-	-
Intel® Iris™ Graphics	-	-	✓	✓	✓	-	-	-
Current Generation NVIDIA* GPU	✓	✓	✓	-	-	✓	-	-
Future Generation NVIDIA* GPU	✓	✓	✓	-	-	✓	✓	-