There are some queues we have access to that you didn't list in the doc (all the new-* ones).

The new-* are queues without GPU?

I think, yes. I checked which hosts are inside new* queues:

limits -a -q waic-short	limits slots							
	limit ngpus_phys		I I					
		new-risk	new-long	new-medium	new-interactive	new-short		
	min	100800	10080	4320	1440	1440		
time limit	h	1680	168	72	24	24		
	days	70	7	3	1	1		
	hosts_group	shalev_hosts/	shalev_hosts/	shalev_hosts/	shalev_hosts/			
		elinav_hosts/	elinav_hosts/	elinav_hosts/		elinav_hosts/		
ueues -l new-risk		ginossar_hosts/	ginossar_hosts/	ginossar_hosts/		ginossar_hosts/		
		public_himem_hosts/	public_himem_hosts/	public_himem_hosts/		public_himem_hosts		
		dell_hosts/	dell_hosts/	dell_hosts/		dell_hosts/		
		schwartz_hosts/	schwartz_hosts/	schwartz_hosts/		schwartz_hosts/		
		shlush_hosts/ shlush_hosts/ shlush_hosts/			shlush_hosts/			
		bio_hosts/	bio_hosts/	bio_hosts/		bio_hosts/		
		wicc hosts/	wicc hosts/	wicc hosts/		wicc hosts/		
		ulitsky hosts/	ulitsky hosts/	ulitsky hosts/		ulitsky hosts/		
		molgen 2020 hosts/	molgen 2020 hosts/	molgen 2020 hosts/		molgen 2020 hosts		
		ulitsky 2020 hosts/				ulitsky 2020 hosts/		
		fleishman 2020 hosts/	fleishman 2020 hosts/	fleishman 2020 hosts/		fleishman 2020 hos		
		feinerman 2020 hosts/	feinerman 2020 hosts/	feinerman 2020 hosts/		feinerman 2020 hos		
		public 2017 hosts/	public 2017 hosts/	public 2017 hosts/		public 2017 hosts/		
		isilon hosts/	isilon hosts/	isilon hosts/		isilon hosts/		
		van hosts/	yan hosts/	van hosts/		yan hosts/		
		samuels 2021 hosts/	samuels 2021 hosts/	samuels 2021 hosts/		samuels 2021 hosts		
		public hosts/	public hosts/	public hosts/	public hosts	public hosts/		
		berg hosts/	berg hosts/	berg hosts/		berg hosts/		
		schneidman hosts/	schneidman hosts/	schneidman hosts/		schneidman hosts/		
		merbl hosts/	merbl hosts/	merbl hosts/		merbl hosts/		
		physics 2021 hosts/	physics 2021 hosts/	physics 2021 hosts/		physics 2021 hosts/		
		bio hosts 2022/	bio hosts 2022/	bio hosts 2022/		bio hosts 2022/		
		tirosh hosts/	tirosh hosts/	tirosh hosts/		tirosh hosts/		
						cn239		
		public gsla hosts/	public gsla hosts/ public gsla hosts/			public gsla hosts/		
		public gsla mem hosts/	public gsla mem hosts/			public gsla mem ho		
		koren_2020_hosts/	koren_2020_hosts/	koren_2020_hosts/		koren_2020_hosts/		
			1					
		CPU	CPU	CPU	CPU	CPU		

and checked, for example the host group = ginossar_host => it includes two hosts: cn242 and cn243:

[ingap@access4	scripts]\$ bhosts	ginoss	ar_hos	ts				
HOST_NAME	STATUS	JL/U	MAX	NJOBS	RUN	SSUSP	USUSP	RSV
cn242	ok		104	21	21	0	Θ	0
cn243	ok		104	49	49	Θ	Θ	0

I run the command: ssh cn242 'nvidia-smi' => to see which type of GPU is there => the output was:

```
[ingap@access4 scripts]$ ssh cn242 'nvidia-smi'
Warning: Permanently added 'cn242,132.76.221.17' (ECDSA) to the list of known hosts.
ingap@cn242's password:
bash: nvidia-smi: command_not found
```

or you can run:

```
[ingap@access4 scripts]$ lshosts -gpu cn242
lshosts: Waiting for LIM to collect GPU resource usage values or no hosts with GPU devices are detected.
```

so, my conclusion => it is not GPU.

There are additional queue which includes GPU, like yan-gpu with even higher priority than waic* queue:

```
[ingap@access4 ~]$ bqueues
QUEUE_NAME PRIO STATU
                                            MAX JL/U JL/P JL/H NJOBS
                                                                           PEND
                   PRIO STATUS
                                                                                    RUN
                                                                                          SUSP
                         Open:Active
                                                   50
molgen-short
                   302
                                                                        Θ
                                                                               0
                                                                                      0
                                                                                             0
                  300 Open:Active
289 Open:Active
mol gen-a
                                                  700
                                                                       40
                                                                               0
                                                                                     40
                                                                                             Θ
                                                                                      0
yan-gpu
                                                                        0
                                                                               A
                                                                                             Θ
sch-gpu
gsla-mem
                   283
240
                         open:active
                                                                               0
                                                                                             Θ
                         Open:Active
                                                                        Θ
                                                                               Θ
                                                                                      Θ
gsla-cpu
                   240
                         Open: Active
                                                                    5617
                                                                            3744
                                                                                   1873
high_gpu_gsla
                   240
                         Open:Active
                                                   10
                                                                               0
interactive_cpu 240
                         Open: Active
                                                                        Θ
                                                                               0
                                                                                      0
interactive apu 240
                         Open: Active
                                                   10
                                                                        0
                                                                               0
                                                                                      0
                                                                                             Θ
                        Open:A tive
Open:A tive
Open:A tive
Open:A tive
waic-short
                   189
waic-medium
                   188
                                                                                             0
                                                                               0
waic-long
waic-risk
                   186
                                                                       37
                                                                              12
                                                                                             Θ
                                                                                     25
                   185
                                                                     267
                                                                              54
                                                                                    213
                                                                                             0
elinav
                   180
                         Open:Active
                                                                        9
                                                                                      0
                                                                                             Θ
sorek-gpu
                   145
                         Open: Active
                                                                        0
                                                                               0
                                                                                             Θ
leeat-gpu
                   145
                                                                                             Θ
                         Open:Active
                                                                        0
                                                                               0
                                                                                      0
molgen-gpu
                   140
                         Open: Active
                                                                               0
                                                                                             Θ
                   140
                         Open: Active
                                                                                      0
                                                                                             Θ
bio-gpu
                                                                        0
                                                                               0
gsla-gpu
                   140
                         Open:Active
                                                                                             Θ
                                                                               0
                                                                        1
gpu-test
                         Open:Active
                                                                                      0
                                                                                             0
                    90
                                                                       0
                                                                               0
gpu-interactive
                    89
                         Open:Active
                                                   30
                                                                               0
                                                                                      6
                                                                                             Θ
                                                                       6
                         Closed:Active
                                                                                      0
gpu-shared
                    85
                                                 1000
                                                                       0
                                                                                             0
                                                                               0
gpu-short
                    84
                         Open:Active
                                                 1000
                                                                      69
                                                                               0
                                                                                     69
                                                                                             Θ
                         Open:Active
gpu-medium
                    84
                                                  720
                                                                               0
                                                                                             0
gpu-long
                    84
                         Open:Active
                                                  460
                                                                     478
                                                                             438
                                                                                     40
                                                                                             Θ
                                                 1000
                                                                                      0
                                                                                             Θ
gpu-risk
                         Open:Active
                                                                        A
                                                                               0
gpu-parallel
                    82
                         Open:Active
                                                 1000
                                                                               0
                                                                                      0
                                                                                             Θ
```

yam-gpu queue includes 2 hosts ibdgx011 and ibdgx012:

```
[ingap@access4 scripts]$ bqueues -l yan-gpu
QUEUE: yan-gpu
-- queue for Yan Binghai GPU jobs
PARAMETERS/STATISTICS
PRIO NICE STATUS
                                MAX JL/U JL/P JL/H NJOBS
                                                               PEND
                                                                        RUN SSUSP USUSP
                                                                                             RSV PJOBS
289 20 Open:Active - - - 0
Interval for a host to accept two jobs is 0 seconds
                                                                                  0
                                                                                         Θ
                                                                   0
                                                                           0
 RUNLIMIT
 1440.0 min
SCHEDULING PARAMETERS
             r15s
                     r1m r15m
                                     ut
                                                      io
                                                            ls
                                                                           tmp
                                               pg
                                                                                   SWD
                                                                                            mem
 loadSched
 loadStop
SCHEDULING POLICIES: FAIRSHARE
USER_SHARES: [default, 1]
HIST HOURS: 72.000000
USERS: talma yan-wx-grp/ wexac-admins/
HOSTS: ibdgx011 ibdgx012 RES_REQ: select[type=any] order[-mem] RESRSV_LIMIT: [ngpus_physical=0,10] GPU_REQ: num=1
ENABLE_GPU_HIST_RUN_TIME: Y
[ingap@access4 scripts]$
```

and these hosts are GPUs =>

```
ipts]$ lshosts -gpu
gpu_model g
TeslaV100_SXM2_
TeslaV100_SXM2_
TeslaV100_SXM2_
TeslaV100_SXM2_
TeslaV100_SXM2_
TeslaV100_SXM2_
TeslaV100_SXM2_
TeslaV100_SXM2_
[ingap@access4 scripts]$ lshosts
HOST_NAME gpu_id ____gpu_mod
                                                                                                   gpu_factor
                                                                                                                                                                                              mig
N
N
                                                                        gpu_driver
525.60.13
                                                                                                                                   numa_id
                                                                                                                                                               vendor
ibdgx011
                                                                                                                 7.0
7.0
                                                                                                                                               Θ
                                                                                                                                                              Nvidia
                                                                           525.60.13
                                                                                                                                                              Nvidia
                                                                           525.60.13
                                                                                                                 7.0
7.0
7.0
7.0
7.0
7.0
                                                                                                                                                               Nvidia
                                                                           525.60.13
                                                                                                                                                                                                  N
N
                                                                                                                                                              Nvidia
                                                                           525.60.13
                                                                                                                                                              Nvidia
                                                                           525.60.13
                                                                                                                                                              Nvidia
                                                                           525.60.13
                                                                                                                                                               Nvidia
                                                                                                                                                                                                   N
N
                                                                           525.60.13
                                                                                                                                                              Nvidia
```

However, we can not use this queue:

```
[ingap@access4 scripts]$ bqueues -l yan-gpu
QUEUE: yan-gpu
-- queue for Yan Binghai GPU jobs
PARAMETERS/STATISTICS
PRIO NICE STATUS MAX JL/U JL/P JL/H NJOBS
289 20 Open:Active - - 0
Interval for a host to accept two jobs is 0 seconds
RUNLIMIT
                                          MAX JL/U JL/P JL/H NJOBS PEND
                                                                                               RUN SSUSP USUSP RSV PJOBS
                                                                                                                    Θ
                                                                                                                             Θ
  1440.0 min
 SCHEDULING PARAMETERS
  r15s r1m r15m ut
loadSched - - - -
                                                            pg io ls
                                                                                                             swp
                                                                                                                        mem
  loadStop
SCHEDULING POLICIES: FAIRSHARE USER_SHARES: [default, 1]
HIST HOURS: 72.000000
USERS: talma yan-wx-grp/ wexac-admins/
USERS: Latima yan-wx-qrp/ wexac-admins/
HOSTS: ibdgx011 ibdgx012
RES_REQ: select[type=any] order[-mem]
RESRSV_LIMIT: [ngpus_physical=0,10]
GPU_REQ: num=1
ENABLE_GPU_HIST_RUN_TIME: Y
[ingap@access4 scripts]$
```

so, our GPUs are waic* and gpu*.

I forgot to mention in the Task 3 that waic-risk can be preempted by waic-short/long/medium

```
[ingap@access4 scripts]$ bqueues -l waic-short
 QUEUE: waic-short
-- queue for non-interactive GPU jobs
 PARAMETERS/STATISTICS
 PRIO NICE STATUS MAX JL/U JL/P JL/H NJOBS 189 20 Open:Active - - 3 Interval for a host to accept two jobs is 0 seconds
                                                                                       MAX JL/U JL/P JL/H NJOBS PEND
                                                                                                                                                                                                    RUN SSUSP USUSP
                                                                                                                                                                                                                                                            RSV PJOBS
                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                   Θ
    RUNLIMIT
    240.0 min
  SCHEDULING PARAMETERS
                                                                                                                                                  io ls
                                    r15s r1m r15m
                                                                                                                                                                                                            tmp
                                                                                                   ut
                                                                                                                               pg
                                                                                                                                                                                                                                  SWD
                                                                                                                                                                                                                                                          mem
    loadSched
    loadStop
 SCHEDULING POLICIES: FAIRSHARE DISPATCH_BY_QUEUE
 FAIRSHARE QUEUES: waic-short waic-medium waic-long USER_SHARES: [default, 1]
SHARE_INFO_FOR: waic-short/
USER/GROUP SHARES PRIORITY STARTED RESERVED CPU_TIME RUN_TIME shakedd 1 0.333 0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.
                                                                                                                                                                                                                                               ADJUST GPU_RUN_TIME
                                                                                                                                                                                                                                                0.000
                                                                                                                                                                          770.8
3185.0
                                                                                 0.045
 drorm
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                               2379
 maorturn
                                                                                 0.045
                                                                                                                     5
                                                                                                                                                   Θ
                                                                                                                                                                                                                647
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                                                                      1294
 bagon
                                                                                 0.038
                                                                                                                                                  Θ
                                                                                                                                                                               11.0
                                                                                                                                                                                                               2874
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                                                                     2874
                                                                                                                                                                             116.7
 talzimb
                                                                                                                                                                                                                                                   0.000
                                                                                0.036
                                                                                                                                                  Θ
                                                                                                                                                                                                               3368
                                                                                                                                                                                                                                                                                                     3368
 andreyg
ilanaveh
                                                                                 0.032
                                                                                                                                                  Θ
                                                                                                                                                                             927.5
                                                                                                                                                                                                               4379
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                                                                     4393
                                                                                  0.022
                                                                                                                                                                          3014.7
                                                                                                                                                                                                               9169
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                                                                     9169
                                                                                                                                                                                                                                                   0.000
                                                                                 0.020
                                                                                                                  10
                                                                                                                                                                       55032.6
                                                                                                                                                                                                               8192
                                                                                                                                                                                                                                                                                                     2020
 arbelh
                                                                                                                                                                                                               9653
7646
                                                                                 0.018
                                                                                                                                                  Θ
                                                                                                                                                                                                                                                                                                  12261
                                                                                                                                                                          4716.5
 shachart
                                                                                                                  20
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                                                                  15292
                                                                                0.009
                                                                                                                                                                            548.1
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                   10337.2
512243.5
                                                                                 0.005
                                                                                                                  64
                                                                                                                                                                                                               8290
                                                                                                                                                                                                                                                                                                    8290
  amnong
                                                                                                                                                                                                                                                                                                  56656
 arielama
  amitabe
                                                                                 0.000
                                                                                                                  95
                                                                                                                                                  Θ
                                                                                                                                                                 2975477.2
                                                                                                                                                                                                         662986
                                                                                                                                                                                                                                                   0.000
                                                                                                                                                                                                                                                                                            1439597
HIST HOURS: 336.000000
USERS: nivh yaelami leeatgen liorben guynev omerba yonina-wx-grp-lsf/ nadler-wx-grp/ talide-wx-gHOSTS: asus_hosts/+4 hpe6k_hosts/+3 waic_dgx_hosts/+2 hpe8k_hosts/+1 waic_2023_gpu/+1 ibdgxa01 ADMINISTRATORS: ingap

RES_REQ: affinity[thread*10] select[type=any] order[-slots:-ngpus_physical] rusage[mem=49152]

RESRSV_LIMIT: [ngpus_physical=0,8]

PREEMPTION: PREEMPTIVE gpu-short gpu-medium gpu-long gpu-risk waic-risk gsla-gpu]
GPU_REQ: num=1:aff=no:gmem=10GB
GPU_RUN_TIME_FACTOR: 10.000000
ENABLE_GPU_HIST_RUN_TIME: Y
[ingap@access4 scripts]$
```

But on the other side waic-risk has not limits 300/60, which we saw for other waic*:

```
ingap@access4 scripts]$ blimits -a -q waic-risk
      ingap@access4 scripts]$ blimits -a -q waic-short
INTERNAL RESOURCE LIMITS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SL0TS
40/300
78/300
96/500
                                                                                                                                                                                                                                                                              HOSTS
                                                                                                                                                                                                                                                                                                                                                                PROJECTS
  NAME USERS
bagon_guaran bagon-wx-grp-lsf waic-short waic-
ronen_guaran ronen-wx-grp-lsf waic-short waic-
talide_guara talide-wx-grp-ls waic-short waic-
talide_guara talide-wx-grp-ls waic-short waic-
ylipman_guar ylipman-wx-grp-l (waic-short waic-
ylipman_guar ylipman-wx-grp-l (waic-short waic-
trani_guaran (irani-wx-grp-l (waic-short waic-
trani_guaran (irani-wx-grp-l (waic-short waic-
shamiro_guar shamiro-wx-grp-l (waic-short waic-
thani_guar shamiro-yx-grp-l (waic-short waic-
thani-guaran daler-wx-grp-l (waic-short waic-
thani-guaran dharel-wx-grp-l (waic-short waic-
thani-guaran dharel-wx-grp-l (waic-short waic-
thani-guaran dharel-wx-grp-l (waic-short waic-
thani-guaran dharel-wx-grp-l (waic-short waic-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SWP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOBS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96/500
30/300
-/300
-/300
-/300
-/300
-/300
-/300
     XTERNAL RESOURCE LIMITS:
 NAME USERS
bagon_guaran bagon-wx-grp-lsf waic-short waic-
ronen guaran ronen-wx-grp-lsf waic-short waic-
ronen guaran ronen-wx-grp-ls waic-short waic-
talide_guara talide-wx-grp-ls waic-short waic-
yonina_guara yonina-wx-grp-ls (waic-short waic-
shimon_guar ylipman_wx-grp-ls (waic-short waic-
shimon_guara shimon-wx-grp-ls (waic-short waic-
trani_guaran (irani-wx-grp-l) (waic-short waic-
maflash_guar maflash-wx-grp-l) (waic-short waic-
shamiro_guar shamiro-wx-grp-l) (waic-short waic-
adler_guara madler-wx-grp-ls (waic-short waic-
dharel_guara dharel-wx-grp-ls (waic-short waic-
dharel_guara dharel-wx-grp-ls (waic-short waic-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ngpus_phys
6/60
5/60
20/100
7/60
-/60
-/60
-/60
-/60
-/60
-/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPS
      ingap@access4 scripts]$ ■
```

Can you explain how the "Factor" works?

According to IBM LSF manual:

https://www.ibm.com/docs/en/spectrum-lsf/10.1.0?topic=reference-command https://www.ibm.com/docs/en/spectrum-lsf/10.1.0?topic=reference-bqueues

RUN_TIME_FACTOR

The weighting parameter for run_time within the dynamic priority calculation. If not defined for the queue, the cluster-wide value that is defined in the lsb.params file is used.

The explanation is not clear for me. Don't know. Lets leave this at his stage.

Does "RESRSV_LIMIT: [ngpus_physical=0,8]" means we cant use less than 0 gpus or more than 8?

I think yes, this is range for amount of GPU which can be used per job: from 0 till 8.

Can you explain how the "nfs4_editfacl" command works? (the one from the jupyter tutorial in the hpcwiki)

I didn't have a time yet to read HPC wiki. I will send the task related to Jupyter how I open and work with it => how I do it.