

IMBBC HPC (“zorbass”) usage policy

HPC Resource Reservation Policy						
Term	Number of nodes (either partial or full usage of a node's cores)	Analysis duration	BATCH max number of nodes to request is four (4)	MINIBATCH	FAST *max 24 hours	BIGMEM
T1	1	≤ 48h	X	X	X *	For Bigmem, please see the terms T15, T16, T17, T18 and T19
T2	1	> 48h	√	√	n/a	
T3	2	≤ 24h	X	X	X	
T4	2	> 24h	√	√	n/a	
T5	≥ 3	> 0h	√	√	n/a	
<p>X: no need for booking (ie. the task can be submitted without resource reservation request) √: need for booking (the task needs approval prior to proceeding) n/a: not applicable</p> <p>To request a new account or software components and to submit a booking request visit: http://hpc.hcmr.gr/helpdesk, to view existing bookings: http://hpc.hcmr.gr/booking, for more info: http://hpc.hcmr.gr</p> <p>All users must take a look at the queue and at the booking site before any submission.</p> <p>T6. Jobs employing new software components (i.e. that have not been used before on the cluster) should be declared as such. Prior to analysis an initial test run in collaboration with systems administrators is mandatory. Test runs can take place only during office hours on weekdays (except Friday)</p> <p>T7. The resources of demonstration jobs (e.g jobs in context of a conference, a meeting or a graduate/postgraduate lesson) have to be always specified (so as their execution can be properly scheduled)</p> <p>T8. Minimum period of responding to a request (e.g. new software installation, new user, general troubleshooting) is two weeks. The IMBBC HPC team tries to serve every request as quickly as possible. A response in less than two weeks cannot and should not be taken for granted. Please plan ahead. Projects and visiting IMBBC HPC researchers should be declared at least two weeks in advance.</p>						

IMBBC HPC User profiles			
	Basic	Advanced	Exceptional
Policy	Available storage: 200GB	Available storage: 600GB	Upon request extra storage or other resources can be allocated for a predefined period of time . This allocation is project (analysis) specific . For multiple projects, multiple requests are required.
Gain Access	To become Basic or Advanced a request form must be submitted	To become Advanced user, an extra request must be submitted by the corresponding supervisor.	Please contact the system administrators

Resource allocation requests will be reviewed** according to:

1. Adequate description of the methodology
 2. Compliance with resource limits per user profile
 3. Efficient past use of resources. The committee reserves the right:
 - a. of proper re-allocation of tasks to appropriate server/queue (when applicable) based on past software history
 - b. to request a community best-practice methodology when applicable
 4. The current load of the infrastructure and of the support team
 5. Job execution risk, see term T6 above
- **:** Reference: the resource allocation evaluation criteria are adapted from the ELIXIR-Greece HPC infrastructure policy (Thanasis Vergoulis *et al.*)

- T9.** For requests that involve the HPC system (defined as “tasks managed by the SLURM scheduling system and running in the Zorba cluster”) full support is provided. Beyond Zorba, full support will be provided for non-Zorba requests with a broad audience. The IMBBC HPC team reserves the right to provide basic support to any other projects
- T10.** The IMBBC HPC team cannot support tasks that exceed its capacities. It is there however to assist seeking alternatives for any interested parties
- T11.** The above policy is subject to annual evaluation and update based on: cluster usage statistics, user feedback, and invited external review
- T12.** By using the IMBBC HPC you agree that non-personal and anonymous usage statistics data are collected to support the previously mentioned analytical actions
- T13.** Idle accounts will be deactivated after six months and archived after a year of inactivity. Archived data will be removed two years after unless otherwise requested.
- T14.** The IMBBC HPC accounts are personal and may not be transferred to other users. Sharing passwords is not allowed.

BOOKING POLICY FOR BIGMEM

- T15.** For jobs of duration lower than 2 days, there is no need for booking, but it is mandatory the sbatch scripts to contain the directive –time=48:00:00. If –time is omitted, then the job will be canceled by administrators without considering if the current duration is lower or more than 48 hours.
- T16.** For jobs of duration more than of 2 days, users should send an email to the imbbc_monthly list (imbbc-hpc-users@lists.hcmr.gr, imbbc_hpc_monthly@lists.hcmr.gr), at least 5 working days before submission. In their email, the exact duration is necessary to be denoted (start and end date). If the exact duration cannot be specified, an approximate one should be denoted. Then, the other users, that may also want to make use of bigmem, can come in contact with the submitter so as an arrangement to be made. The arrangement can either be made by the users or by their supervisors. After the arrangement, the administrators must be kept aware, so that the booking website is updated. After the end of the **5th working day** and given that all the appropriate arrangements have been made, the analysi(e)s can start.
- T17.** For an extension request of a booking period, the whole procedure of **T16** must be repeated.
- T18.** Within a running booking whose owner does not continually make use of, other users can submit jobs (according to the T16) upon the consent of the current booking owner. In general, the total duration of all these jobs should not exceed the 48 hours for all users, except if the current booking owner gives the consent for it and administrators are on time kept aware. In any case, if any users want to run repeatedly jobs within another booking should have the consent of the current booking owner. The –time directive is enforced to be used.
- T19.** Users cannot book bigmem for a long period of time, without running an analysis.