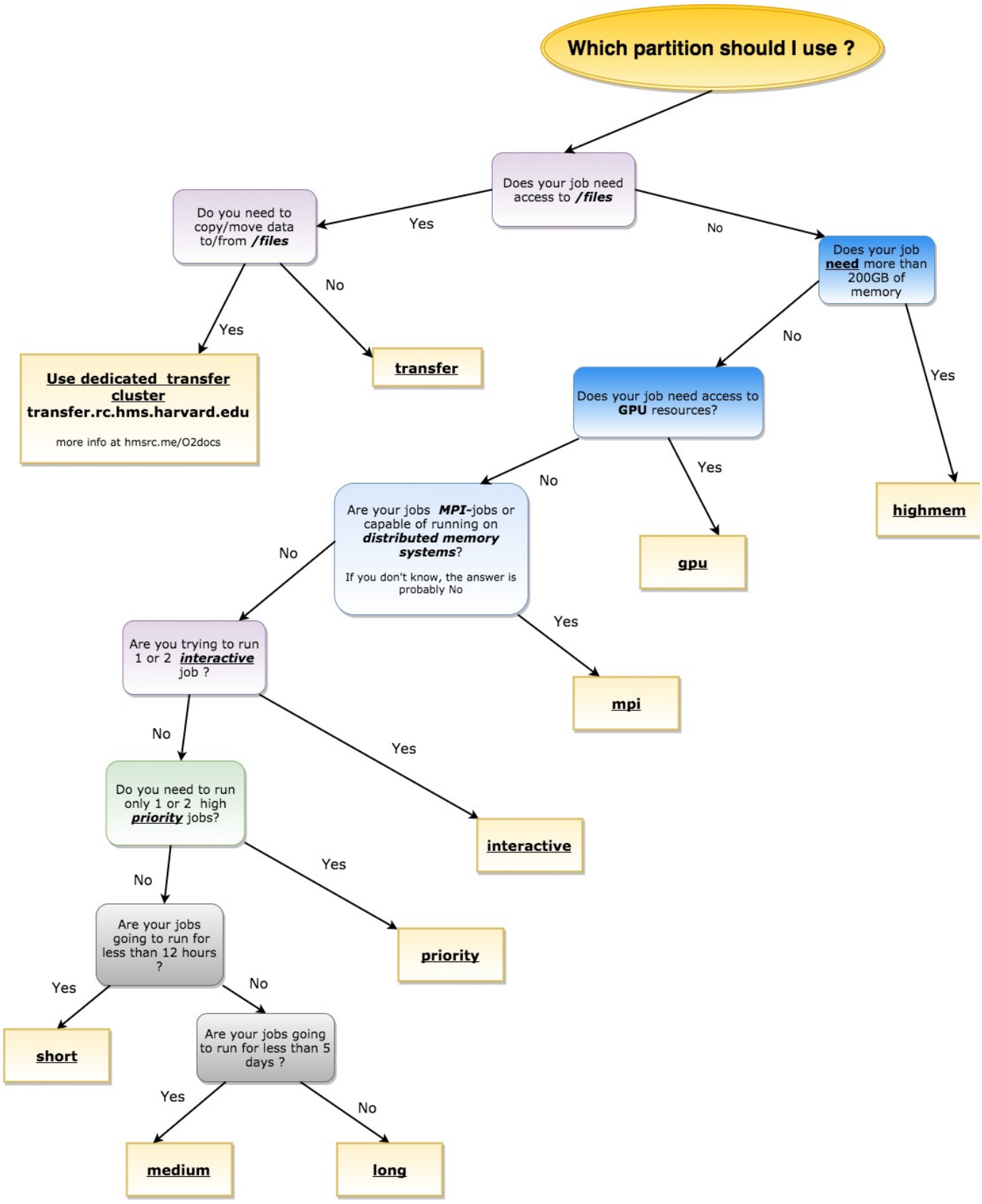
How to choose a partition in O2

In O2 we minimized the number of available partitions (or queues) to simplify the job submission process.

You can use the flow chart below to find out which partition is best for the type of jobs you plan to run.



Note 1: all partitions can currently be used to request interactive sessions; the interactive partition has a dedicated set of nodes and higher priority.

Note 2: all partitions can run single or multi-core jobs (O2 does not have an mcore queue). For more information about parallel jobs in O2 read

our dedicated wiki page

Details about the available partitions are reported in the table below

Partition	Job Type	Priority	Max cores	Max runtime limit	Min runtime limit	Notes
interactive	interactive	14	20	12 hours	n/a	2 job limit, 20 core limit, 250GB / job memory limit
short	batch & interactive	12	20	12 hours	n/a	20 core limit, 250GB / job memory limit
medium		6	20	5 days	12 hours	20 core limit, 250GB / job memory limit
long		4	20	30 days	5 days	20 core limit, 250GB / job memory limit
mpi		12	640	5 days	n/a	invite-only. Email rchelp
priority		14	20	30 days	n/a	limit 2 jobs **running** at once (like Orchestra priority queue), 20 core per job limit 250GB / job memory limit
transfer		n/a	4	5 days	n/a	limit of a 5 concurrently cores per user for transfers between O2 and `/n/files` See File Transfer for more information. Invite-only. Email rchelp.
gpu		n/a	20	72 GPU hours	n/a	see the Using O2 GPU resources page for more details
highmem		n/a	16	5 days	n/a	invite-only. Email rchelp