

<b>Service name</b>	Taito
<b>Service summary</b>	The Taito service allows customers to run serial and small parallel jobs through a batch queueing system. Taito-shell is available for interactive jobs and Taito-GPU has GPU resources.
<b>Detailed description</b>	<p>Taito is a HPC cluster platform with Intel Sandy Bridge and Haswell processors and FDR Infiniband interconnect running a Linux operating system. Nodes with various amounts of memory are available. Taito-GPU has a number of Nvidia K40 GPUs.</p> <p>Jobs are submitted to Taito and Taito-GPU through a batch queueing system. Interactive jobs can be run on Taito-shell.</p> <p>Taito can be accessed through Unix shell and X forwarding, NoMachine virtual desktop and CSC's SUI.</p> <p>Users can</p> <ul style="list-style-type: none"> <li>• develop their own codes (Fortran, C/C++),</li> <li>• install Linux and x86/Nvidia K40 compatible applications</li> <li>• or utilize CSC's large scientific software collection.</li> </ul> <p>For code parallelization MPI and OpenMP can be used. CUDA and OpenACC can be used with GPUs. Additionally, mathematical subroutine libraries are available.</p> <p>The Taito environment includes tools for debugging and performance analysis.</p> <p>More details about the service are available at: <a href="https://research.csc.fi/csc-s-servers#taito">https://research.csc.fi/csc-s-servers#taito</a></p>
<b>Target audience</b>	Academic, public and private sector.
<b>How to obtain the Service</b>	<p>In order to access and use the service the customer must have a CSC user account and a project, which can be applied for either on an academic or commercial basis.</p> <p>Academic sector customers:</p> <ul style="list-style-type: none"> <li>• The CSC user account and the project can be requested through the Scientist's User Interface (<a href="https://sui.csc.fi">https://sui.csc.fi</a>)</li> </ul> <p>Non-academic sector customers, or customers with special requirements:</p> <ul style="list-style-type: none"> <li>• Please contact <a href="mailto:servicedesk@csc.fi">servicedesk@csc.fi</a></li> </ul>
<b>Service level &amp; availability</b>	The Taito service adheres to JHS174 "A-basic" category (see <a href="http://docs.jhs-suositukset.fi/jhs-suositukset/JHS174/JHS174.html">http://docs.jhs-suositukset.fi/jhs-suositukset/JHS174/JHS174.html</a> ). The availability target and details regarding the SLA: <a href="https://research.csc.fi/csc-s-servers/taito">https://research.csc.fi/csc-s-servers/taito</a>
<b>Service hours and user support</b>	Support to the service is provided through CSC Service Desk channels and under CSC Service Desk policies:

	<ul style="list-style-type: none"> <li>• CSC Service Desk Operating hours (Excluding Finnish public holidays) (<a href="https://www.csc.fi/en/web/guest/customer-service">https://www.csc.fi/en/web/guest/customer-service</a>)</li> <li>• Phone +358 (0) 94 57 2821</li> <li>• E-Mail <a href="mailto:servicedesk@csc.fi">servicedesk@csc.fi</a></li> <li>• Webpage and contact form <a href="https://research.csc.fi/support">https://research.csc.fi/support</a></li> </ul> <p>Response time target: within three working days. Resolution time target: within ten working days.</p>
<b>Pricing</b>	<a href="https://research.csc.fi/pricing-of-computing-services">https://research.csc.fi/pricing-of-computing-services</a>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>• ISO27001</li> </ul>
<b>Client's responsibilities</b>	<p>Clients of Taito are responsible for their data and computing</p> <ul style="list-style-type: none"> <li>• Backups</li> <li>• Information security</li> <li>• Installations (if not utilizing CSC's software)</li> <li>• Capacity requests</li> </ul>
<b>Service producer's responsibilities</b>	<p>As a service producer CSC is responsible for:</p> <ul style="list-style-type: none"> <li>• Producing and developing the Taito service.</li> </ul>
<b>Adjacent services</b>	Sisu, cPouta
<b>Additional services</b>	
<b>Service producer</b>	CSC – IT Center for Science Ltd