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File Systems

Available file systems

On the DEEP-EST system, three different groups of file systems are available:

- the [?JSC GPFS file systems](#), provided via [?JUST](#) and mounted on all JSC systems;
- the DEEP-EST parallel BeeGFS file systems, available on all the nodes of the DEEP-EST system;
- the file systems local to each node.

The users home folders are placed on the shared GPFS file systems. With the advent of the new user model at JSC ([?JUMO](#)), the shared file systems are structured as follows:

- **\$HOME:** each JSC user has a folder under `/p/home/jusers/`, in which different home folders are available, one per system he/she has access to. These home folders have a low space quota and are reserved for configuration files, ssh keys, etc.
- **\$PROJECT:** In JUMO, data and computational resources are assigned to projects: users can request access to a project and use the resources associated to it. As a consequence, each user can create folders within each of the projects he/she is part of (with either personal or permissions to share with other project members). For the DEEP project, the project folder is located under `/p/project/cdeep/`. Here is where the user should place data, and where the old files generated in the home folder before the JUMO transition can be found.

The DEEP-EST system doesn't mount the \$SCRATCH file systems from GPFS, as it is expected to provide similar functionalities with its own parallel and local file systems.

The deepv login node exposes the same file systems as the compute nodes, but it lacks a local scratch file system. Since /tmp is very limited in size on deepv please use \$SCRATCH instead (pointing to the project folder) or use e.g. the /pmem/scratch on the dp-dam partition \$LOCALSCRATCH on any other compute node when performing SW installation activities. **A quota has been introduced for /tmp on deepv to avoid clogging of this filesystem on the login node which will lead to several issues. Additionally, files in /dev/shm, /tmp and /var/tmp older than 7 days will be removed regularly** ""

The following table summarizes the characteristics of the file systems available in the DEEP-EST and DEEP-ER (SDV) systems. **Please beware that the `$project` (all lowercase) variable used in the table only represents any JuDoor project the user might have access to, and that it is not really exported on the system environment.** For a list of all projects a user belongs to, please refer to the user's [JuDoor page](#). Alternatively, users can check the projects they are part of with the `jutil` application:

```
$ jutil user projects -o columns
```

Document	Year when document created	Author	Date	Where created	How created	Where stored	How stored	Accession number	Accession date
1912-1913	1912-1913	W. H. D. R. R.	1912-1913	1912-1913	1912-1913	1912-1913	1912-1913	1912-1913	1912-1913
1914-1915	1914-1915	W. H. D. R. R.	1914-1915	1914-1915	1914-1915	1914-1915	1914-1915	1914-1915	1914-1915
1916-1917	1916-1917	W. H. D. R. R.	1916-1917	1916-1917	1916-1917	1916-1917	1916-1917	1916-1917	1916-1917
1918-1919	1918-1919	W. H. D. R. R.	1918-1919	1918-1919	1918-1919	1918-1919	1918-1919	1918-1919	1918-1919
1920-1921	1920-1921	W. H. D. R. R.	1920-1921	1920-1921	1920-1921	1920-1921	1920-1921	1920-1921	1920-1921
1922-1923	1922-1923	W. H. D. R. R.	1922-1923	1922-1923	1922-1923	1922-1923	1922-1923	1922-1923	1922-1923
1924-1925	1924-1925	W. H. D. R. R.	1924-1925	1924-1925	1924-1925	1924-1925	1924-1925	1924-1925	1924-1925
1926-1927	1926-1927	W. H. D. R. R.	1926-1927	1926-1927	1926-1927	1926-1927	1926-1927	1926-1927	1926-1927
1928-1929	1928-1929	W. H. D. R. R.	1928-1929	1928-1929	1928-1929	1928-1929	1928-1929	1928-1929	1928-1929
1930-1931	1930-1931	W. H. D. R. R.	1930-1931	1930-1931	1930-1931	1930-1931	1930-1931	1930-1931	1930-1931
1932-1933	1932-1933	W. H. D. R. R.	1932-1933	1932-1933	1932-1933	1932-1933	1932-1933	1932-1933	1932-1933
1934-1935	1934-1935	W. H. D. R. R.	1934-1935	1934-1935	1934-1935	1934-1935	1934-1935	1934-1935	1934-1935
1936-1937	1936-1937	W. H. D. R. R.	1936-1937	1936-1937	1936-1937	1936-1937	1936-1937	1936-1937	1936-1937
1938-1939	1938-1939	W. H. D. R. R.	1938-1939	1938-1939	1938-1939	1938-1939	1938-1939	1938-1939	1938-1939
1940-1941	1940-1941	W. H. D. R. R.	1940-1941	1940-1941	1940-1941	1940-1941	1940-1941	1940-1941	1940-1941
1942-1943	1942-1943	W. H. D. R. R.	1942-1943	1942-1943	1942-1943	1942-1943	1942-1943	1942-1943	1942-1943
1944-1945	1944-1945	W. H. D. R. R.	1944-1945	1944-1945	1944-1945	1944-1945	1944-1945	1944-1945	1944-1945
1946-1947	1946-1947	W. H. D. R. R.	1946-1947	1946-1947	1946-1947	1946-1947	1946-1947	1946-1947	1946-1947
1948-1949	1948-1949	W. H. D. R. R.	1948-1949	1948-1949	1948-1949	1948-1949	1948-1949	1948-1949	1948-1949
1950-1951	1950-1951	W. H. D. R. R.	1950-1951	1950-1951	1950-1951	1950-1951	1950-1951	1950-1951	1950-1951
1952-1953	1952-1953	W. H. D. R. R.	1952-1953	1952-1953	1952-1953	1952-1953	1952-1953	1952-1953	1952-1953
1954-1955	1954-1955	W. H. D. R. R.	1954-1955	1954-1955	1954-1955	1954-1955	1954-1955	1954-1955	1954-1955
1956-1957	1956-1957	W. H. D. R. R.	1956-1957	1956-1957	1956-1957	1956-1957	1956-1957	1956-1957	1956-1957
1958-1959	1958-1959	W. H. D. R. R.	1958-1959	1958-1959	1958-1959	1958-1959	1958-1959	1958-1959	1958-1959
1960-1961	1960-1961	W. H. D. R. R.	1960-1961	1960-1961	1960-1961	1960-1961	1960-1961	1960-1961	1960-1961
1962-1963	1962-1963	W. H. D. R. R.	1962-1963	1962-1963	1962-1963	1962-1963	1962-1963	1962-1963	1962-1963
1964-1965	1964-1965	W. H. D. R. R.	1964-1965	1964-1965	1964-1965	1964-1965	1964-1965	1964-1965	1964-1965
1966-1967	1966-1967	W. H. D. R. R.	1966-1967	1966-1967	1966-1967	1966-1967	1966-1967	1966-1967	1966-1967
1968-1969	1968-1969	W. H. D. R. R.	1968-1969	1968-1969	1968-1969	1968-1969	1968-1969	1968-1969	1968-1969
1970-1971	1970-1971	W. H. D. R. R.	1970-1971	1970-1971	1970-1971	1970-1971	1970-1971	1970-1971	1970-1971
1972-1973	1972-1973	W. H. D. R. R.	1972-1973	1972-1973	1972-1973	1972-1973	1972-1973	1972-1973	1972-1973
1974-1975	1974-1975	W. H. D. R. R.	1974-1975	1974-1975	1974-1975	1974-1975	1974-1975	1974-1975	1974-1975
1976-1977	1976-1977	W. H. D. R. R.	1976-1977	1976-1977	1976-1977	1976-1977	1976-1977	1976-1977	1976-1977
1978-1979	1978-1979	W. H. D. R. R.	1978-1979	1978-1979	1978-1979	1978-1979	1978-1979	1978-1979	1978-1979
1980-1981	1980-1981	W. H. D. R. R.	1980-1981	1980-1981	1980-1981	1980-1981	1980-1981	1980-1981	1980-1981
1982-1983	1982-1983	W. H. D. R. R.	1982-1983	1982-1983	1982-1983	1982-1983	1982-1983	1982-1983	1982-1983
1984-1985	1984-1985	W. H. D. R. R.	1984-1985	1984-1985	1984-1985	1984-1985	1984-1985	1984-1985	1984-1985
1986-1987	1986-1987	W. H. D. R. R.	1986-1987	1986-1987	1986-1987	1986-1987	1986-1987	1986-1987	1986-1987
1988-1989	1988-1989	W. H. D. R. R.	1988-1989	1988-1989	1988-1989	1988-1989	1988-1989	1988-1989	1988-1989
1990-1991	1990-1991	W. H. D. R. R.	1990-1991	1990-1991	1990-1991	1990-1991	1990-1991	1990-1991	1990-1991
1992-1993	1992-1993	W. H. D. R. R.	1992-1993	1992-1993	1992-1993	1992-1993	1992-1993	1992-1993	1992-1993
1994-1995	1994-1995	W. H. D. R. R.	1994-1995	1994-1995	1994-1995	1994-1995	1994-1995	1994-1995	1994-1995
1996-1997	1996-1997	W. H. D. R. R.	1996-1997	1996-1997	1996-1997	1996-1997	1996-1997	1996-1997	1996-1997
1998-1999	1998-1999	W. H. D. R. R.	1998-1999	1998-1999	1998-1999	1998-1999	1998-1999	1998-1999	1998-1999
2000-2001	2000-2001	W. H. D. R. R.	2000-2001	2000-2001	2000-2001	2000-2001	2000-2001	2000-2001	2000-2001
2002-2003	2002-2003	W. H. D. R. R.	2002-2003	2002-2003	2002-2003	2002-2003	2002-2003	2002-2003	2002-2003
2004-2005	2004-2005	W. H. D. R. R.	2004-2005	2004-2005	2004-2005	2004-2005	2004-2005	2004-2005	2004-2005
2006-2007	2006-2007	W. H. D. R. R.	2006-2007	2006-2007	2006-2007	2006-2007	2006-2007	2006-2007	2006-2007
2008-2009	2008-2009	W. H. D. R. R.	2008-2009	2008-2009	2008-2009	2008-2009	2008-2009	2008-2009	2008-2009
2010-2011	2010-2011	W. H. D. R. R.	2010-2011	2010-2011	2010-2011	2010-2011	2010-2011	2010-2011	2010-2011
2012-2013	2012-2013	W. H. D. R. R.	2012-2013	2012-2013	2012-2013	2012-2013	2012-2013	2012-2013	2012-2013
2014-2015	2014-2015	W. H. D. R. R.	2014-2015	2014-2015	2014-2015	2014-2015	2014-2015	2014-2015	2014-2015
2016-2017	2016-2017	W. H. D. R. R.	2016-2017	2016-2017	2016-2017	2016-2017	2016-2017	2016-2017	2016-2017
2018-2019	2018-2019	W. H. D. R. R.	2018-2019	2018-2019	2018-2019	2018-2019	2018-2019	2018-2019	2018-2019
2020-2021	2020-2021	W. H. D. R. R.	2020-2021	2020-2021	2020-2021	2020-2021	2020-2021	2020-2021	2020-2021
2022-2023	2022-2023	W. H. D. R. R.	2022-2023	2022-2023	2022-2023	2022-2023	2022-2023	2022-2023	2022-2023
2024-2025	2024-2025	W. H. D. R. R.	2024-2025	2024-2025	2024-2025	2024-2025	2024-2025	2024-2025	2024-2025
2026-2027	2026-2027	W. H. D. R. R.	2026-2027	2026-2027	2026-2027	2026-2027	2026-2027	2026-2027	2026-2027
2028-2029	2028-2029	W. H. D. R. R.	2028-2029	2028-2029	2028-2029	2028-2029	2028-2029	2028-2029	2028-2029
2030-2031	2030-2031	W. H. D. R. R.	2030-2031	2030-2031	2030-2031	2030-2031	2030-2031	2030-2031	2030-2031
2032-2033	2032-2033	W. H. D. R. R.	2032-2033	2032-2033	2032-2033	2032-2033	2032-2033	2032-2033	2032-2033
2034-2035	2034-2035	W. H. D. R. R.	2034-2035	2034-2035	2034-2035	2034-2035	2034-2035	2034-2035	2034-2035
2036-2037	2036-2037	W. H. D. R. R.	2036-2037	2036-2037	2036-2037	2036-2037	2036-2037	2036-2037	2036-2037
2038-2039	2038-2039	W. H. D. R. R.	2038-2039	2038-2039	2038-2039	2038-2039	2038-2039	2038-2039	2038-2039
2040-2041	2040-2041	W. H. D. R. R.	2040-2041	2040-2041	2040-2041	2040-2041	2040-2041	2040-2041	2040-2041
2042-2043	2042-2043	W. H. D. R. R.	2042-2043	2042-2043	2042-2043	2042-2043	2042-2043	2042-2043	2042-2043
2044-2045	2044-2045	W. H. D. R. R.	2044-2045	2044-2045	2044-2045	2044-2045	2044-2045	2044-2045	2044-2045
2046-2047	2046-2047	W. H. D. R. R.	2046-2047	2046-2047	2046-2047	2046-2047	2046-2047	2046-2047	2046-2047
2048-2049	2048-2049	W. H. D. R. R.	2048-2049	2048-2049	2048-2049	2048-2049	2048-2049	2048-2049	2048-2049
2050-2051	2050-2051	W. H. D. R. R.	2050-2051	2050-2051	2050-2051	2050-2051	2050-2051	2050-2051	2050-2051
2052-2053	2052-2053	W. H. D. R. R.	2052-2053	2052-2053	2052-2053	2052-2053	2052-2053	2052-2053	2052-2053
2054-2055	2054-2055	W. H. D. R. R.	2054-2055	2054-2055	2054-2055	2054-2055	2054-2055	2054-2055	2054-2055
2056-2057	2056-2057	W. H. D. R. R.	2056-2057	2056-2057	2056-2057	2056-2057	2056-2057	2056-2057	2056-2057
2058-2059	2058-2059	W. H. D. R. R.	2058-2059	2058-2059	2058-2059	2058-2059	2058-2059	2058-2059	2058-2059
2060-2061	2060-2061	W. H. D. R. R.	2060-2061	2060-2061	2060-2061	2060-2061	2060-2061	2060-2061	2060-2061
2062-2063	2062-2063	W. H. D. R. R.	2062-2063	2062-2063	2062-2063	2062-2063	2062-2063	2062-2063	2062-2063
2064-2065	2064-2065	W. H. D. R. R.	2064-2065	2064-2065	2064-2065	2064-2065	2064-2065	2064-2065	2064-2065
2066-2067	2066-2067	W. H. D. R. R.	2066-2067	2066-2067	2066-2067	2066-2067	2066-2067	2066-2067	2066-2067
2068-2069	2068-2069	W. H. D. R. R.	2068-2069	2068-2069	2068-2069	2068-2069	2068-2069	2068-2069	2068-2069
2070-2071	2070-2071	W. H. D. R. R.	2070-2071	2070-2071	2070-2071	2070-2071	2070-2071	2070-2071	2070-2071
2072-2073	2072-2073	W. H. D. R. R.	2072-2073	2072-2073	2072-2073	2072-2073	2072-2073	2072-2073	2072-2073
2074-2075	2074-2075	W. H. D. R. R.	2074-2075	2074-2075	2074-2075	2074-2075	2074-2075	2074-2075	2074-2075
2076-2077	2076-2077	W. H. D. R. R.	2076-2077	2076-2077	2076-2077	2076-2077	2076-2077	2076-2077	2076-2077
2078-2079	2078-2079	W. H. D. R. R.	2078-2079	2078-2079	2078-2079	2078-2079	2078-2079	2078-2079	2078-2079
2080-2081	2080-2081	W. H. D. R. R.	2080-2081	2080-2081	2080-2081	2080-2081	2080-2081	2080-2081	2080-2081
2082-2083	2082-2083	W. H. D. R. R.	2082-2083	2082-208					

Notes

- dd test @dp-dam01 of the DCPMM in appdirect mode:

```
[root@dp-dam01 scratch]# dd if=/dev/zero of=./delme bs=4M count=1024 conv=sync  
1024+0 records in  
1024+0 records out  
4294967296 bytes (4.3 GB) copied, 1.94668 s, 2.2 GB/s
```

- The /work file system which is available in the DEEP-EST prototype, is as well reachable from the nodes in the SDV (including KNLs and ml-gpu nodes) but through a slower connection of 1 Gb/s. The file system is therefore not suitable for benchmarking or I/O task intensive jobs from those nodes