

## TM5-MP - Feature #10391

### Running on one processor

07/04/2018 09:53 AM - Philippe Le Sager

<b>Status:</b>	Closed	<b>Start date:</b>	07/04/2018
<b>Priority:</b>	Low	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour

#### Description

Andy asked: "For my applications, there is no compelling reason to switch to TM5-MP. We use an ensemble estimation scheme, where it is trivial to parallelize using the ensemble itself. Therefore, I have stayed with the zoom version so far, but it is clear that we will need to change to TM5-MP soon. So: what if I want to keep running the way I do already, without subdomains? Can TM5-MP run with only one (global) domain?"

First test running on one core fails with this traceback:

```
Rank 0 [Tue Jul 3 17:56:23 2018] [c1-1c0s8n2] Fatal error in PMPI_Type_free: Invalid datatype, error stack:
```

```
PMPI_Type_free(157): MPI_Type_free(datatype_p=0x7fffb2939640) failed
```

```
PMPI_Type_free(89): Invalid datatype
```

```
fortrtl: error (76): Abort trap signal
```

Image	PC	Routine	Line	Source
libintlc.so.5	00002AAE1E143CF1	tbk_trace_stack_i	Unknown	Unknown
libintlc.so.5	00002AAE1E141E2B	tbk_string_stack_	Unknown	Unknown
tm5mp.x	00000000015C8B24	Unknown	Unknown	Unknown
tm5mp.x	00000000015C8936	Unknown	Unknown	Unknown
tm5mp.x	0000000001570539	Unknown	Unknown	Unknown
tm5mp.x	0000000001574854	Unknown	Unknown	Unknown
libpthread-2.11.3	00002AAE1F6DA850	Unknown	Unknown	Unknown
libc-2.11.3.so	00002AAE1FB94875	gsignal	Unknown	Unknown
libc-2.11.3.so	00002AAE1FB95E51	abort	Unknown	Unknown
libmpich_intel.so	00002AAE1EE24BD8	Unknown	Unknown	Unknown
libmpich_intel.so	00002AAE1EDACE02	MPIR_Handle_fatal	Unknown	Unknown
libmpich_intel.so	00002AAE1EDACF3E	MPIR_Err_return_c	Unknown	Unknown
libmpich_intel.so	00002AAE1ED18DD3	MPI_Type_free	Unknown	Unknown
libmpich_intel.so	00002AAE1ED780F1	PMPI_TYPE_FREE	Unknown	Unknown
tm5mp.x	00000000005C45E0	domain_decomp_mp_	1171	domain_decomp.F90
tm5mp.x	00000000005CD68F	domain_decomp_mp_	2831	domain_decomp.F90
tm5mp.x	0000000000DD77F8	meteo_mp_setup_mf	4952	meteo.F90
tm5mp.x	0000000000D99488	meteo_mp_meteo_se	1647	meteo.F90
tm5mp.x	0000000000A926CB	initexit_mp_start	562	initexit.F90
tm5mp.x	0000000001019D08	tm5_mp_tm5_model_	986	tm5.F90
tm5mp.x	00000000010CA2B6	MAIN__	63	tracer.F90
tm5mp.x	000000000041133E	Unknown	Unknown	Unknown
libc-2.11.3.so	00002AAE1FB80C36	__libc_start_main	Unknown	Unknown
tm5mp.x	0000000000411249	Unknown	Unknown	Unknown

#### History

#1 - 05/31/2022 12:43 PM - Philippe Le Sager

- Status changed from In Progress to Resolved

Fixed after we moved to gitlab to manage the development.

#2 - 05/31/2022 12:46 PM - Philippe Le Sager

- Status changed from Resolved to Closed