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## Appendix C - System performance example



System performances on the Sen2-Agri Production Platform used as calculation basis ( 2 x Intel(R) Xeon(R) CPU E5-2650 v3 @ 2.30GHz - 40 threads, 128 gb ram)

	Products	Tiles	Out Tiles	Duration
Download from Amazon	1	12	12	13 min
MACCS	1	14	14	2 hours
Composite	17	201	61	7 hours
LAI Mono date with model generation	17	201	201	9.5 hours
LAI Mono date with model generation	4	50	50	2h15 min
LAI Mono date without model generation	1	13	13	15 min
LAI Reprocessing 3 Dates	4	19	19	30 min
LAI Fitted	4	19	19	40 min

Measured times on the Sen2-Agri production platform

	Tiles/acq	Duration per acq (min)	Nb Acq	Duration for all months (min)	Duration for products in one month (hours)
Download from Amazon	80	104	3	312	5.2
MACCS	80	320	3	960	16
Composite	80	180	3	540	9
LAI Mono date with model generation	80	240	3	720	12
LAI Mono date without model generation	80	100	3	300	5
LAI Reprocessing 3 Dates	80	120	3	360	6
LAI Fitted * * Not relevant for 3 acquisition dates and done at the end of the season. The time will be multiplied with the number of months in one season	80	160	3	480	8

Extrapolation for national site (~80 tiles) with data for 1 month on the Sen2-Agri production platform

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<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2420 v2 @ 2.20GHz - 24 threads) or 1 x Intel(R) Xeon(R) CPU E5-2650 v3 @ 2.30GHz - 20 threads
<b>Mémoire RAM</b>	64 GB

**Suggestion for a server configuration national case**

<b>Processor</b>	<b>Duration (hours)</b>
<b>Download from Amazon</b>	13
<b>MACCS</b>	40
<b>Composite</b>	22.5
<b>LAI Mono date with model generation</b>	30
<b>LAI Mono date without model generation</b>	12.5
<b>LAI Reprocessing 3 Dates</b>	15
<b>LAI Fitted *</b> * Not relevant for 3 acquisition dates and done at the end of the season. The time will be multiplied with the number of months in one season	20

**Estimated duration for the previous suggested server configuration**