5.1.2. Parallelization of the PCG by Non-overlapping DD

■ <u>Distribution of the data to the processors</u> P_j, $j=\overline{1,7}$:

We use <u>two types</u> of the distribution of the data
(<u>vectors</u>, matrices), which are appeared in the PCG,
to the processors:

<u>Type I</u>: <u>overlapping</u>:

$\underline{u}$, $\underline{w}$, $\underline{s}$ will be stored in P_j ($\hat{=}$ $\overline{\Omega}_j$) as

$\underline{u}_j = A_j \underline{u}$, $\underline{w}_j = A_j \underline{w}$, $\underline{s}_j = A_j \underline{s} \in \mathbb{R}^{N_b}$

($\rightarrow$ overlap in the C'-components):