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Prevention of Deadlock

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Abstract - It has been observed from literature that scheduling different types of packets, at sensor nodes with resource constraints in Wireless Sensor Networks (WSN) is to reduce sensors ' energy consumption and end to end data transmission delays. Most of the existing packet scheduling mechanism of WSN use first come first serve (FCFS), non- preemptive priority and preemptive priority scheduling algorithm. These algorithms incur a high processing overhead and long end to end data transmission delay. Dynamic Multilevel Priority (DMP) packet scheduling scheme is introduced to reduce end to end transmission delay. It includes three levels of priority queues. Real time, non real time remote data packet received from lower level nodes, Non-real time data traffic with same priority. The leaf nodes don't receive data from other nodes thus it reduces end to end delay. The result of this paper is conventional schemes in terms of average data waiting time and end to end delay.